

Imagination Technologies Ltd / Pure

Application
For
Certification

FCC ID: X280071

Wireless 'AirPlay' Speaker Dock

Model: Pure Contour i1 Air

Trademark: Pure

WiFi Transceiver

Report No.: 130513051SZN-001

We hereby certify that the sample of the above item is considered to comply with the requirements of FCC Part 15, Subpart C for Intentional Radiator, mention 47 CFR [10-1-12]

Prepared and Checked by:

Approved by:

Sign on file

William Chen
Project Engineer

Billy Li
Supervisor
Date: 10 October, 2013

- The test results reported in this test report shall refer only to the sample actually tested and shall not refer or be deemed to refer to bulk from which such a sample may be said to have been obtained.
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TRF no.: FCC 15C_Tx_b

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INTERTEK TESTING SERVICES

MEASUREMENT/TECHNICAL REPORT

Imagination Technologies Ltd / Pure
MODEL: Pure Contour i1 Air

FCC ID: X280071

This report concerns (check one) Original Grant Class II Change

Equipment Type: DTS - Part 15 Digital Transmission Systems (WiFi transmitter portion)

Deferred grant requested per 47 CFR 0.457(d)(1)(ii)? Yes No

If yes, defer until : _____
date

Company Name agrees to notify the Commission by: _____
date

of the intended date of announcement of the product so that the grant can be issued on that date.

Transition Rules Request per 15.37? Yes No

If no, assumed Part 15, Subpart C for intentional radiator - the new 47 CFR [10-01-12 Edition] provision.

Report prepared by:

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List of attached file

| Exhibit type | File Description | Filename |
|-----------------------|----------------------------|----------------------|
| Test Report | Test Report | report.pdf |
| Test Setup Photo | Radiated Emission | radiated photos.pdf |
| Test Setup Photo | Conducted Emission | conducted photos.pdf |
| External Photo | External Photo | external photos.pdf |
| Internal Photo | Internal Photo | internal photos.pdf |
| Block Diagram | Block Diagram | block.pdf |
| Schematics | Circuit Diagram | circuit.pdf |
| Operation Description | Technical Description | descri.pdf |
| ID Label/Location | Label Artwork and Location | label.pdf |
| User Manual | User Manual | manual.pdf |
| Cover Letter | Confidentiality Letter | request.pdf |
| Cover Letter | Letter of Agency | agency.pdf |
| Cover Letter | Certification Agreement | agreement.pdf |

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EXHIBIT 1

SUMMARY OF TEST RESULTS

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1.0 Summary of test results

**Imagination Technologies Ltd / Pure
MODEL: Pure Contour i1 Air**

FCC ID: X280071

| TEST | REFERENCE | RESULTS |
|--|--------------|------------------|
| Max. Output power | 15.247(b)(3) | Pass |
| 6 dB Bandwidth | 15.247(a)(2) | Pass |
| Max. Power Density | 15.247(e) | Pass |
| Out of Band Antenna Conducted Emission | 15.247(d) | Pass |
| Radiated Emission in Restricted Bands | 15.247(d) | Pass |
| AC Conducted Emission | 15.207 | Pass |
| Antenna Requirement | 15.203 | Pass (See Notes) |

Notes: The EUT uses Integral Antenna which in accordance to Section 15.203 is considered sufficient to comply with the provisions of this section.

The EUT has two antennas and only one antenna works at the same moment, the two antennas can't work simultaneously. Test for two antennas have been performed and worst case about two antennas showed in this report.

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EXHIBIT 2

GENERAL DESCRIPTION

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2.0 General Description

2.1 Product Description

The Equipment Under Test (EUT) is a Wireless 'AirPlay' Speaker Dock with internal WiFi function operating at 2412-2462MHz for 802.11b/g, 11 channels with 5MHz channel spacing. The EUT can be powered by by AC adapter with input: 100-240 V, 50/60Hz; output: DC 12V, 2.4A. For more detailed features description, please refer to the user's manual.

Type of Modulation: BPSK, QPSK, 16QAM, CCK.

Antenna Type: Integral Antenna.

For electronic filing, the brief circuit description is saved with filename: descri.pdf.

2.2 Related Submittal(s) Grants

This is an application for certification of:

DTS- Part 15 Digital Transmission Systems (WiFi transmitter portion)

Remaining portions are subject to the following procedures:

1. Receiver portion of WiFi: exempt from technical requirement of this Part.
2. Other Digital Function: (FCC VOC report 130513050SZN-001)

2.3 Test Methodology

Both AC mains line-conducted and radiated emission measurements were performed according to the procedures in ANSI C63.4 (2009) and KDB 558074. Radiated emission measurement was performed in semi-anechoic chamber and conducted emission measurement was performed in shield room. For radiated emission measurement, preliminary scans were performed in the semi-anechoic chamber only to determine the worst case modes. All radiated tests were performed at an antenna to EUT distance of 3 meters, unless stated otherwise in the "Justification Section" of this Application. All other measurements were made in accordance with the procedures in part 2 of CFR 47.

2.4 Test Facility

The Semi-Anechoic chamber and shield room used to collect the radiated data and conducted data are **Intertek Testing Services Shenzhen Ltd. Kejiyuan Branch** and located at 6F, Block D, Huahan Building, Langshan Road, Nanshan District, Shenzhen, P. R. China. This test facility and site measurement data have been fully placed on file with the FCC (Registration Number: 242492).

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EXHIBIT 3

SYSTEM TEST CONFIGURATION

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3.0 System Test Configuration

3.1 Justification

For emissions testing, the equipment under test (EUT) setup to transmit continuously to simplify the measurement methodology. Care was taken to ensure proper power supply voltages during testing. During testing, all cables and accessories were manipulated to produce worst case emissions. The EUT was powered by AC adapter with AC 120V/60Hz (the AC 120V/60Hz was for AC adapter input) during the test. Only the worst case data was reported.

The signal is maximized through rotation and placement in the three orthogonal axes. The antenna height and polarization are varied during the search for maximum signal level. The antenna height is varied from 1 to 4 meters. Radiated emissions are taken at three meters unless the signal level is too low for measurement at that distance. If necessary, a pre-amplifier is used and/or the test is conducted at a closer distance.

All readings are extrapolated back to the equivalent three meter reading using inverse scaling with distance. Analyzer resolution is 100 kHz or greater for frequencies below 1000 MHz. The resolution is 1 MHz or greater for frequencies above 1000 MHz. The spurious emissions more than 20 dB below the permissible value are not reported.

Radiated emission measurement were performed the lowest radio frequency signal generated in the device which is greater than 9 kHz to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower.

3.2 EUT Exercising Software

The EUT exercise program (provided by client) used during radiated and conducted testing was designed to exercise the various system components in a manner similar to a typical use. The worst case configuration is used in all specified testing.

The parameters of test software setting:

During the test, Channel and power controlling software provided by the applicant was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the application and is going to be fixed on the firmware of the end product.

Power Parameters of IEEE 802.11b/g

| Test software setting of IEEE 802.11b/g/n | | | |
|---|--------------------|-------------------|----------------------------|
| Channel No. | Output Power Level | Data rate | Modulation type |
| 1,6,11 | 15.0 | 802.11b: 1-11Mbps | 802.11b: CCK |
| | 19.0 | 802.11g: 6-54Mbps | 802.11g: BPSK, QPSK, 16QAM |

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3.3 Special Accessories

Adaptor with two ferrite cores attached.

3.4 Measurement Uncertainty

When determining of the test conclusion, the Measurement Uncertainty of test has been considered.

Uncertainty and Compliance – Unless the standard specifically states that measured values are to be extended by the measurement uncertainty in determining compliance, all compliance determinations are based on the actual measured value.

3.5 Equipment Modification

Any modifications installed previous to testing by Imagination Technologies Ltd / Pure will be incorporated in each production model sold / leased in the United States.

No modifications were installed by Intertek Testing Services Shenzhen Ltd. Kejiyuan Branch.

3.6 Support Equipment List and Description

This product was tested in the following configuration:

Refer List:

| Description | Manufacturer | Model No. |
|-------------|--------------|--|
| iPod | Apple | A1421 |
| iPhone | Apple | A1303 |
| Audio Cable | N/A | Unshielded, Length 150cm |
| RJ45 Cable | N/A | Unshielded, Length 300cm |
| Router | D-link | DIR-655 |
| Adaptor | Pure | Model: KSAS0251200240D5 Input: AC 100-240V, 50/60Hz, 0.9A Output: DC 12V, 2.4A |

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EXHIBIT 4

MEASUREMENT RESULTS

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Applicant: Imagination Technologies Ltd / Pure

Date of Test: July 22, 2013

Model: Pure Contour i1 Air

4.0 Measurement Results

4.1 Maximum Conducted Output Power at Antenna Terminals, FCC Rules 15.247(b)(3):

- [] The antenna port of the EUT was connected to the input of a spectrum analyzer. The analyzer was set according to the FCC KDB 558074 spectrum analyzer's integrated band power measurement function with band limits set equal to the EBW band edges and power was read directly in dBm. External attenuation and cable loss were compensated from the measured value.
- [x] The antenna power of the EUT was connected to the input of a broadband peak RF power meter. The power meter have a video bandwidth that is greater than DTS bandwidth and utilize a fast-responding diode detector. Power was read directly at the EUT antenna terminals. External attenuation and cable loss were compensated from the measured value.

For antennas with gains of 6 dBi or less, maximum allowed Transmitter output is 1 watt (+30 dBm).

| IEEE 802.11b (Antenna Gain =1.8dBi) (CCK, 1Mbps) | | |
|--|---------------|-----------------|
| Frequency (MHz) | Output in dBm | Output in mWatt |
| Low Channel: 2412 | 17.04 | 50.58 |
| Middle Channel: 2437 | 18.22 | 66.37 |
| High Channel: 2462 | 16.68 | 46.56 |

| IEEE 802.11g (Antenna Gain = 1.8dBi) (16QAM, 6Mbps) | | |
|---|---------------|-----------------|
| Frequency (MHz) | Output in dBm | Output in mWatt |
| Low Channel: 2412 | 22.11 | 162.55 |
| Middle Channel: 2437 | 21.98 | 157.76 |
| High Channel: 2462 | 21.91 | 155.23 |

EUT max. output level = 22.11dBm

Cable Loss: 0.5dB

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Applicant: Imagination Technologies Ltd / Pure

Date of Test: July 22, 2013

Model: Pure Contour i1 Air

4.2 Minimum 6 dB RF Bandwidth, FCC Rule 15.247(a)(2):

The antenna port of the EUT was connected to the input of a spectrum analyzer. Analyzer RES BW was set to 100 KHz according to FCC KDB 558074. For each RF output channel investigated, the spectrum analyzer center frequency was set to the channel carrier. A PEAK output reading was taken, a DISPLAY line was drawn 6 dB lower than PEAK level. The 6dB bandwidth was determined from where the channel output spectrum intersected the display line.

Limit: The 6 dB Bandwidth is at least 500 kHz.

| IEEE 802.11b (CCK, 1Mbps) | |
|---------------------------|----------------------|
| Frequency (MHz) | 6 dB Bandwidth (MHz) |
| 2412 | 12.56 |
| 2437 | 12.56 |
| 2462 | 12.56 |

| IEEE 802.11g (16QAM, 6Mbps) | |
|-----------------------------|----------------------|
| Frequency (MHz) | 6 dB Bandwidth (MHz) |
| 2412 | 16.36 |
| 2437 | 16.36 |
| 2462 | 16.36 |

The test plots are attached as below.

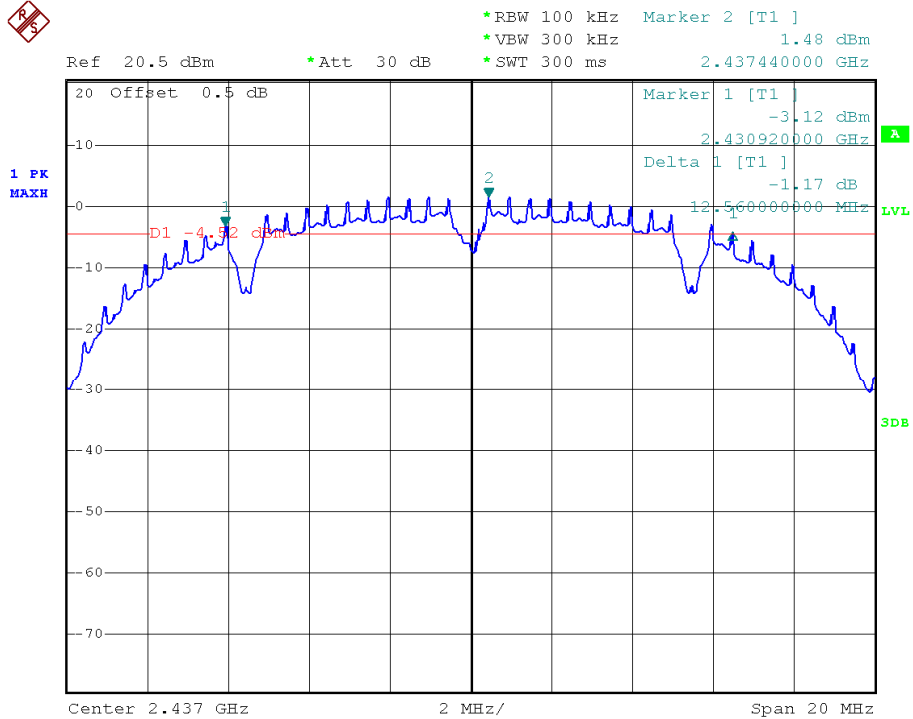
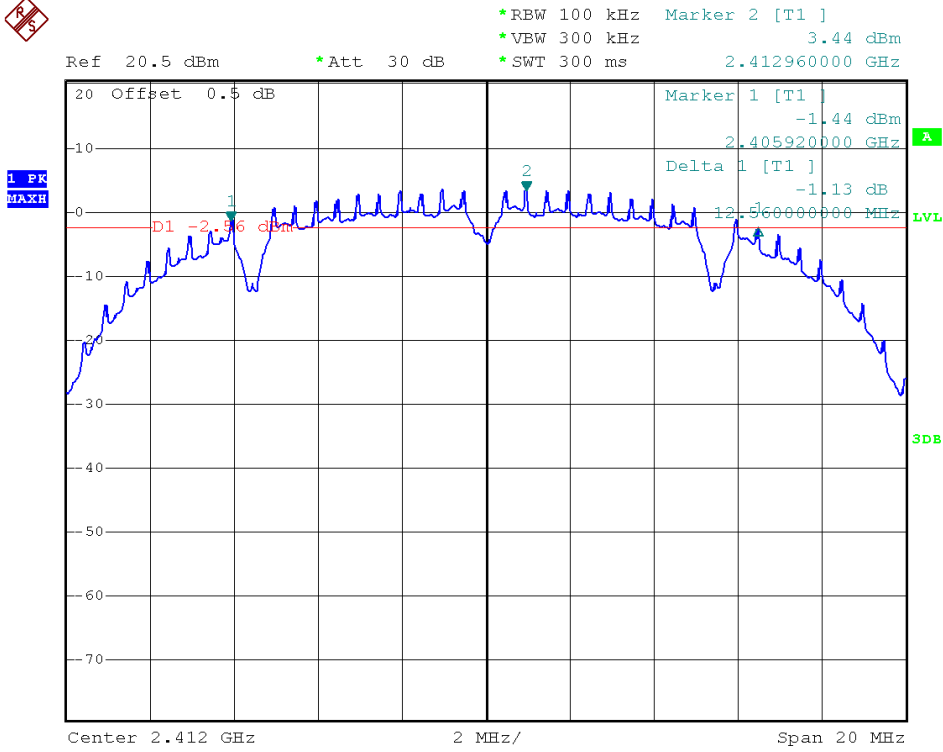
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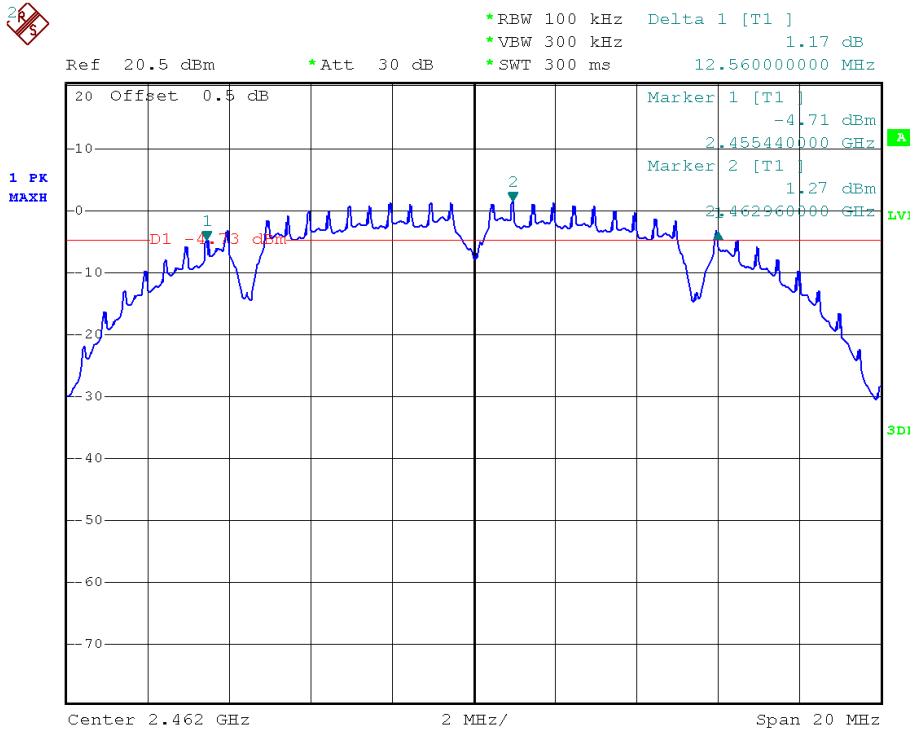
INTERTEK TESTING SERVICES

802.11b

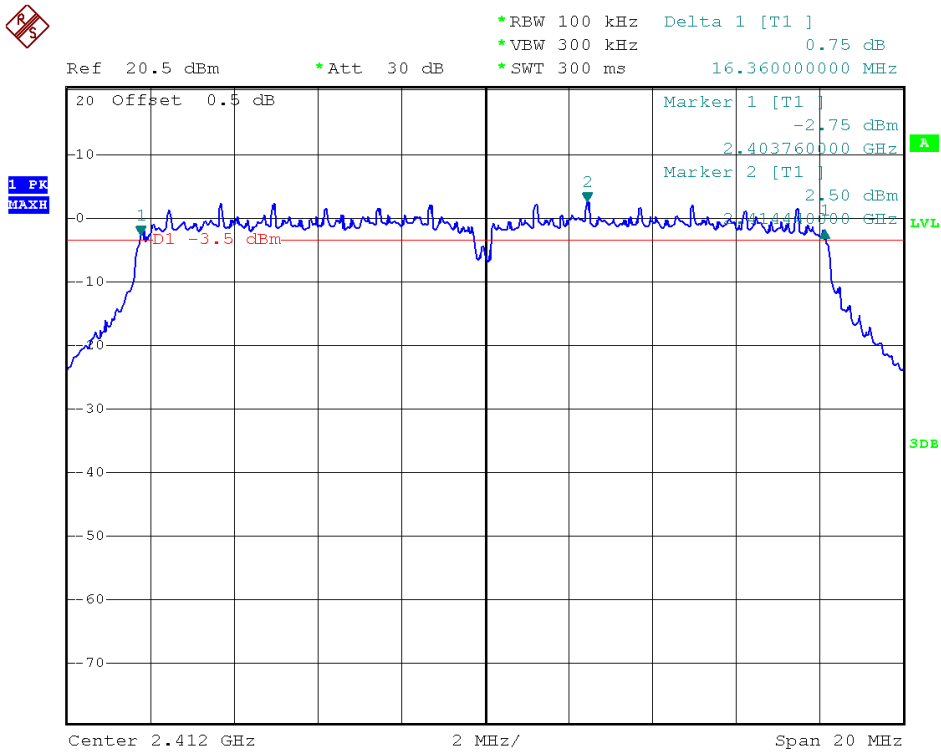


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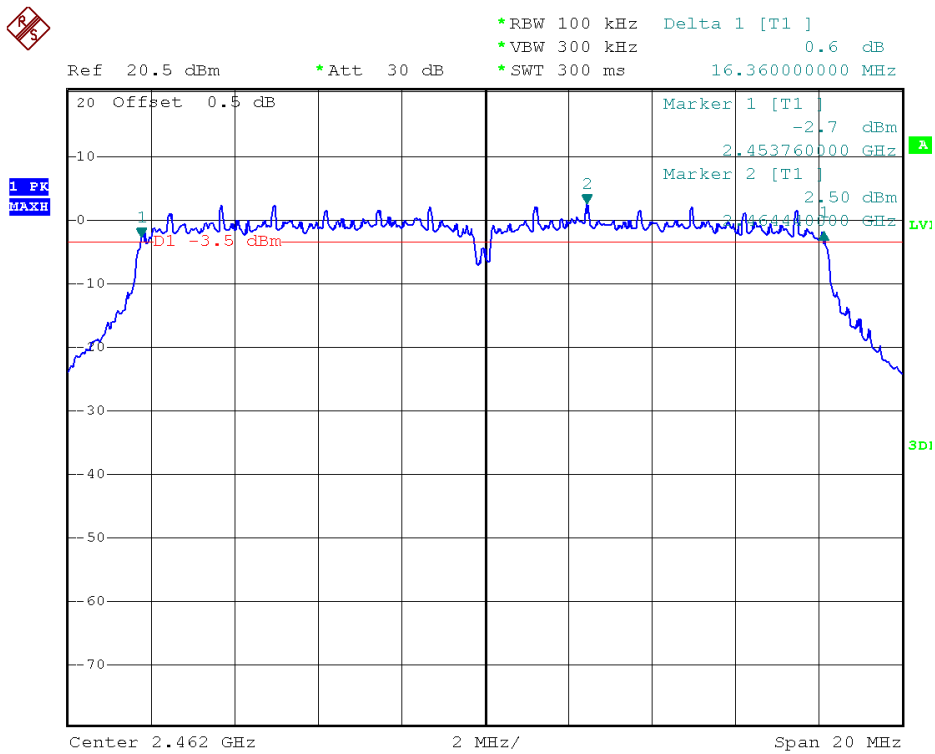
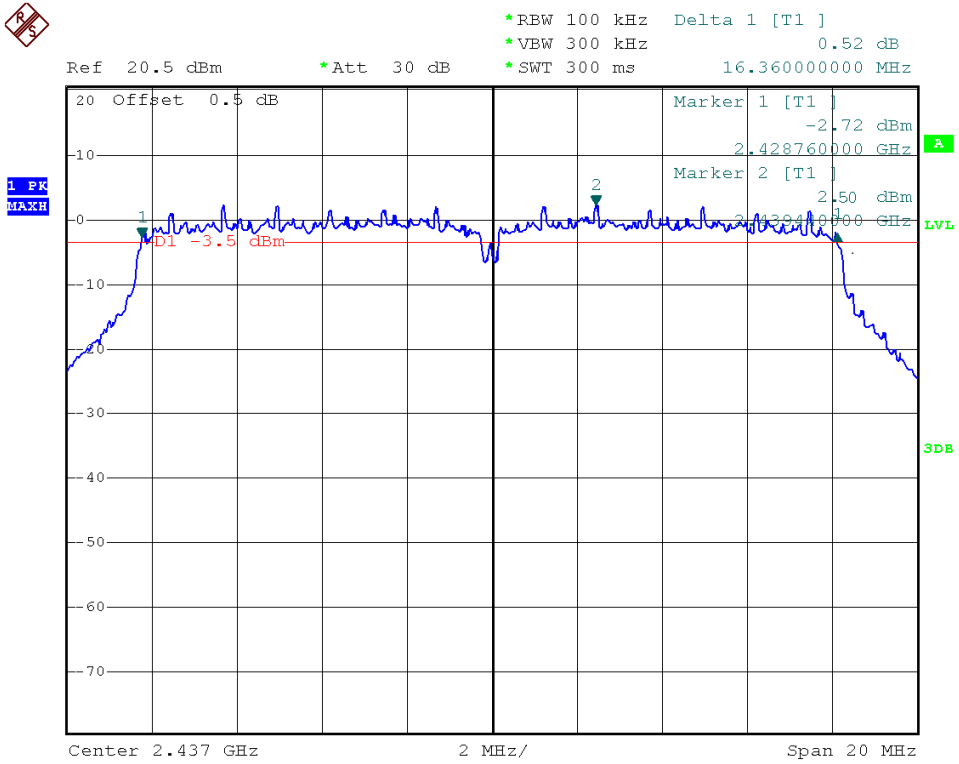
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802.11g



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Applicant: Imagination Technologies Ltd / Pure

Date of Test: July 22, 2013

Model: Pure Contour i1 Air

4.3 Maximum Power Density Reading, FCC Rule 15.247(e):

The Measurement Procedure PKPSD was set according to the FCC KDB 558074.

Antenna output of the EUT was coupled directly to spectrum analyzer; if an external attenuator and/or cable was used, these losses are compensated for with the analyzer OFFSET function.

Limit: The Power Density does not exceed 8dBm/ 3 kHz.

| IEEE 802.11b (CCK, 1Mbps) | |
|---------------------------|-------------------------------|
| Frequency (MHz) | Power Density with RBW 100KHz |
| 2412 | 3.59 |
| 2437 | 4.65 |
| 2462 | 3.51 |

| IEEE 802.11g (16QAM, 6Mbps) | |
|-----------------------------|-------------------------------|
| Frequency (MHz) | Power Density with RBW 100KHz |
| 2412 | 2.49 |
| 2437 | 2.52 |
| 2462 | 2.31 |

Cable Loss: 0.5dB

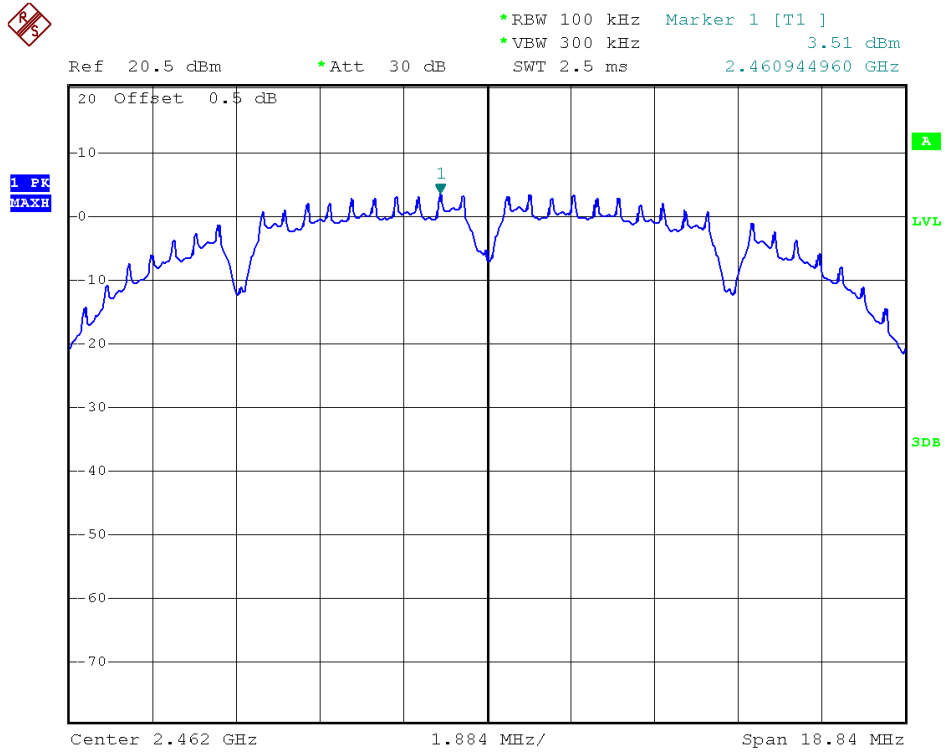
The test plots are attached as below.

TRF no.: FCC 15C_TX_b

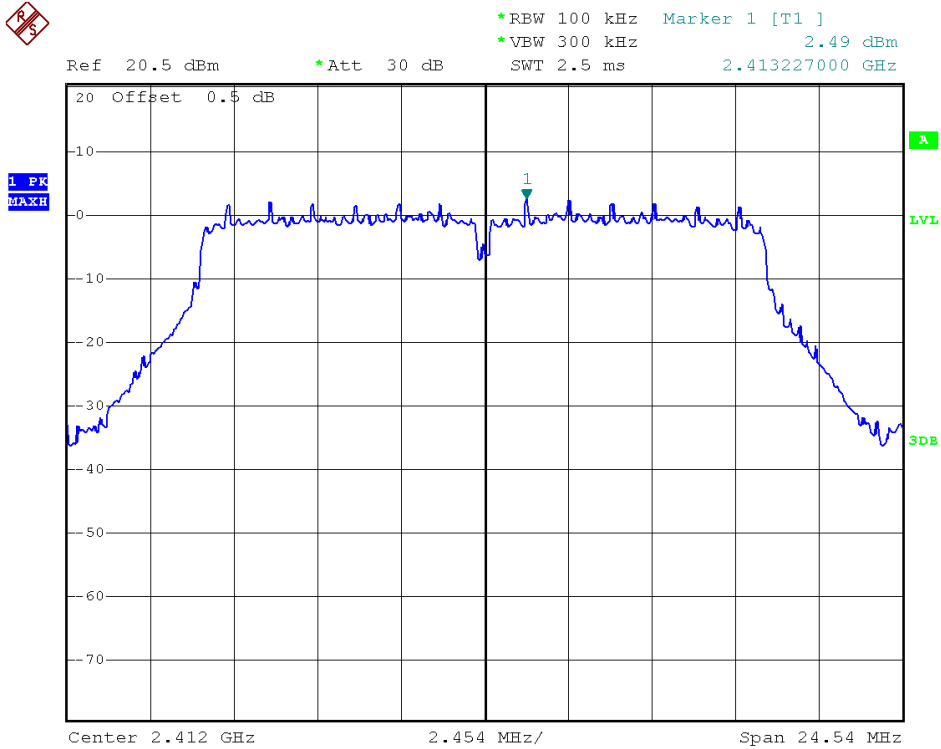
FCC ID: X280071

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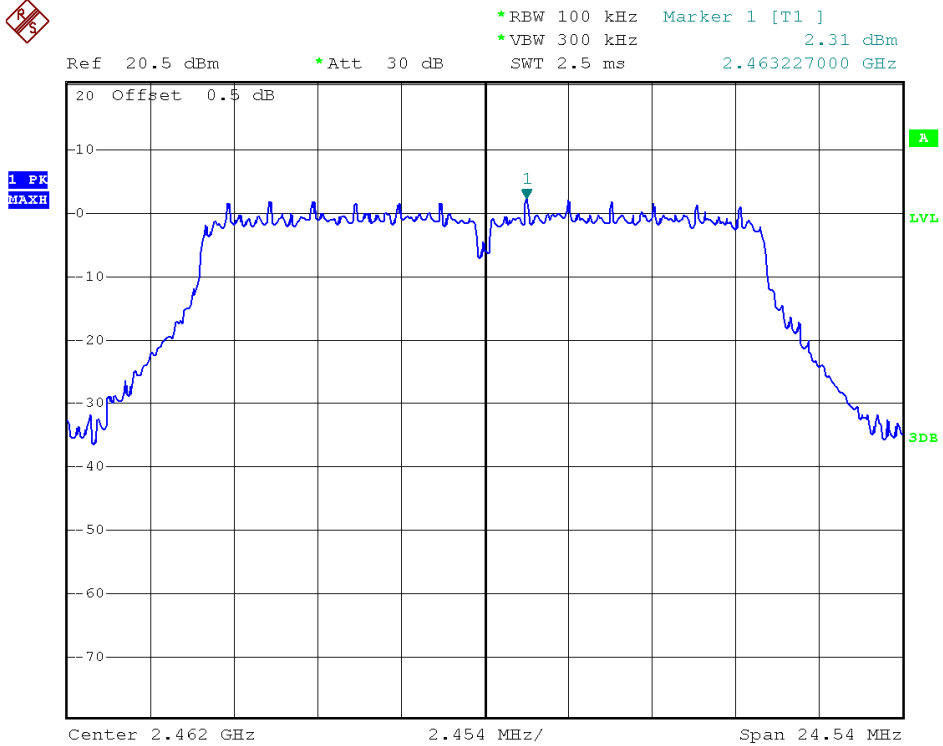
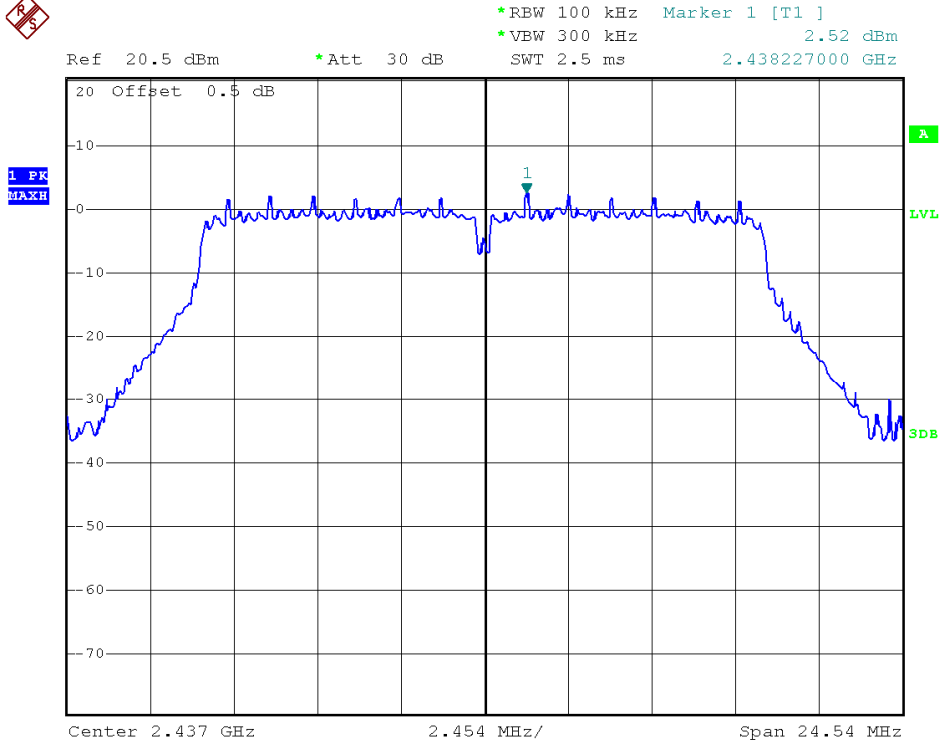


802.11g



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INTERTEK TESTING SERVICES

Applicant: Imagination Technologies Ltd / Pure
Date of Test: July 22, 2013
Model: Pure Contour i1 Air

4.4 Out of Band Conducted Emissions, FCC Rule 15.247(d)

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. The Measurement Procedure was set according to the FCC KDB 558074.

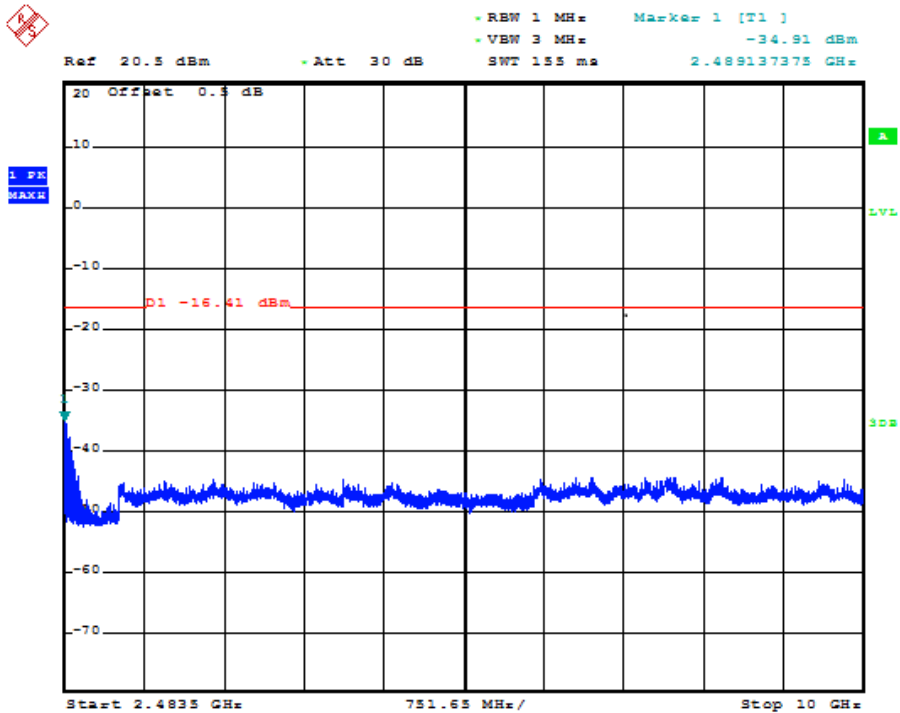
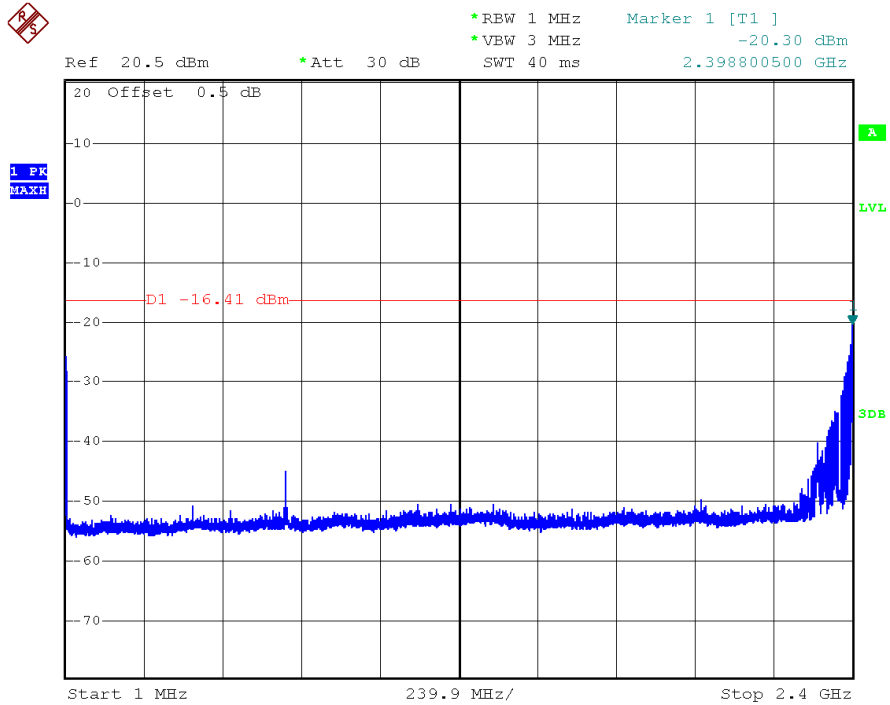
Refer to the attached test plots for out of band conducted emissions data with rate of 1Mbps for 802.11b, 6Mbps for 802.11g.

The test plots showed all spurious emission up to the tenth harmonic was measured and they were found to be at least 20 dB below the highest level of the desired power in the passband.

The test plots are attached as below.

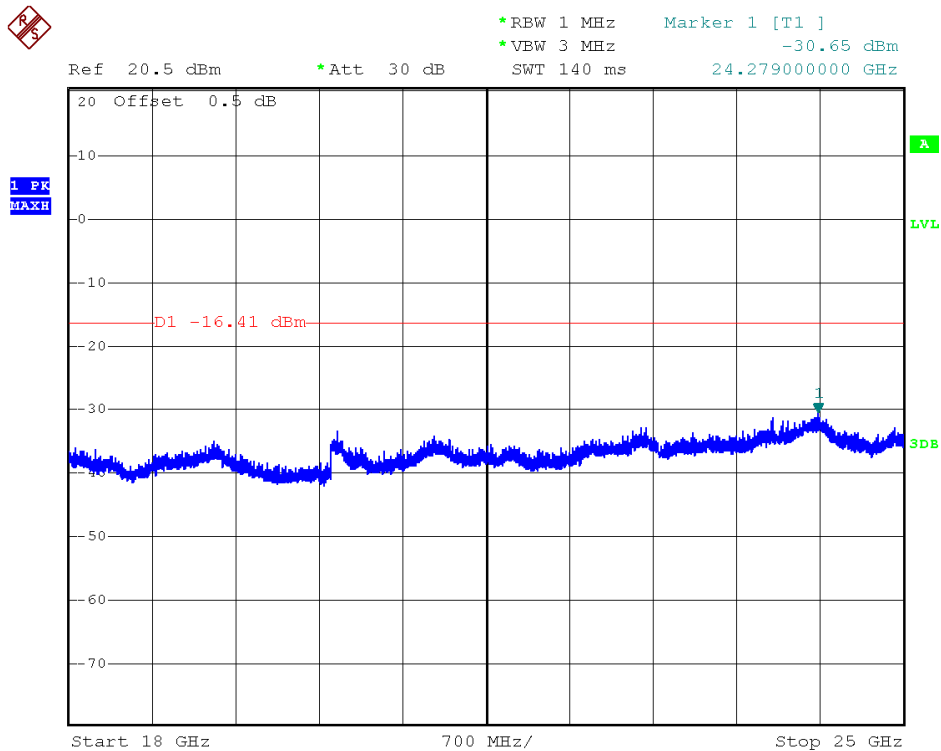
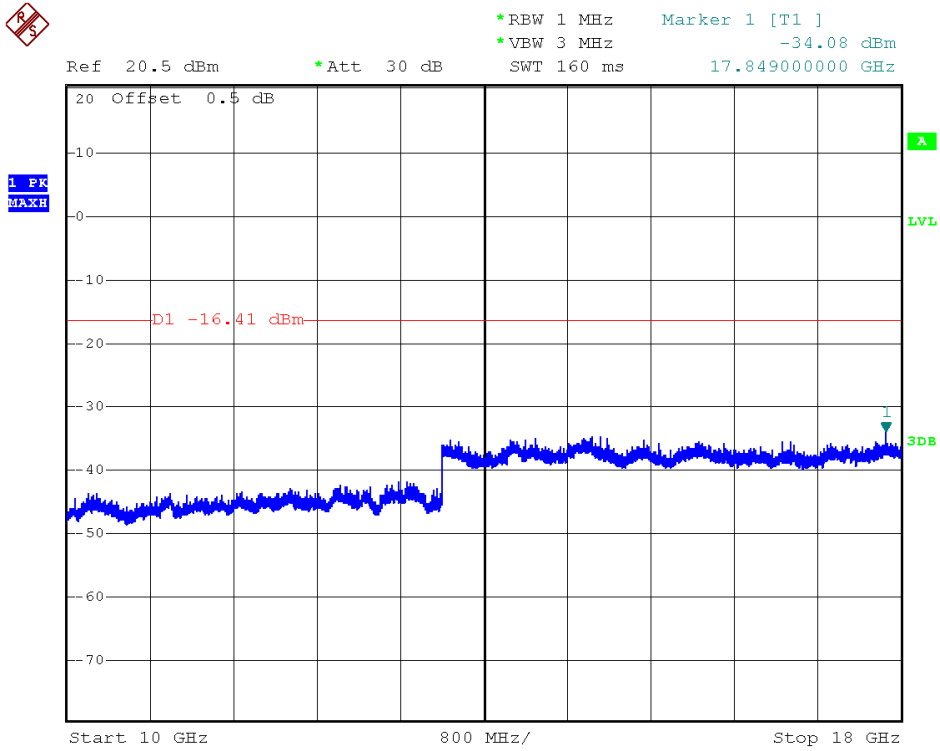
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802.11b
Channel 01 (2412MHz) Reference Level: 3.59dBm



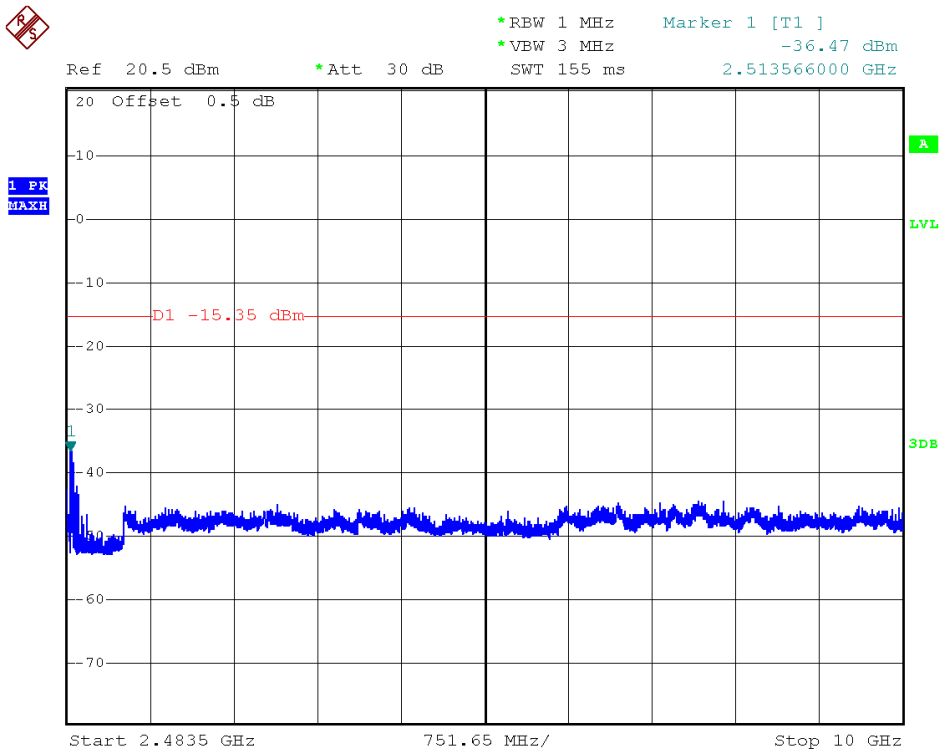
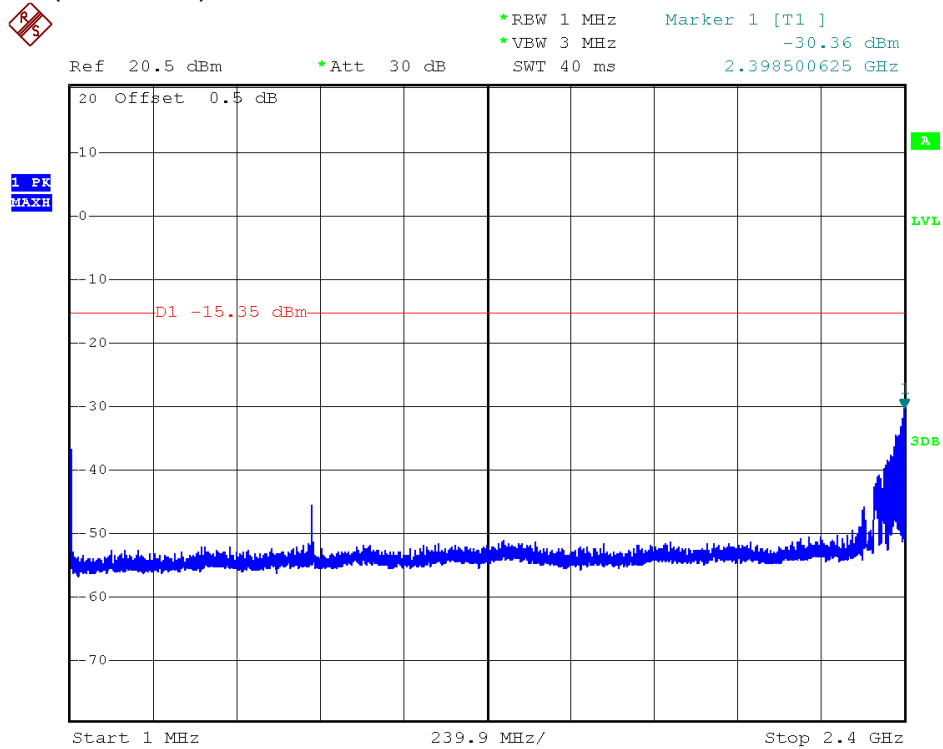
TRF no.: FCC 15C_TX_b
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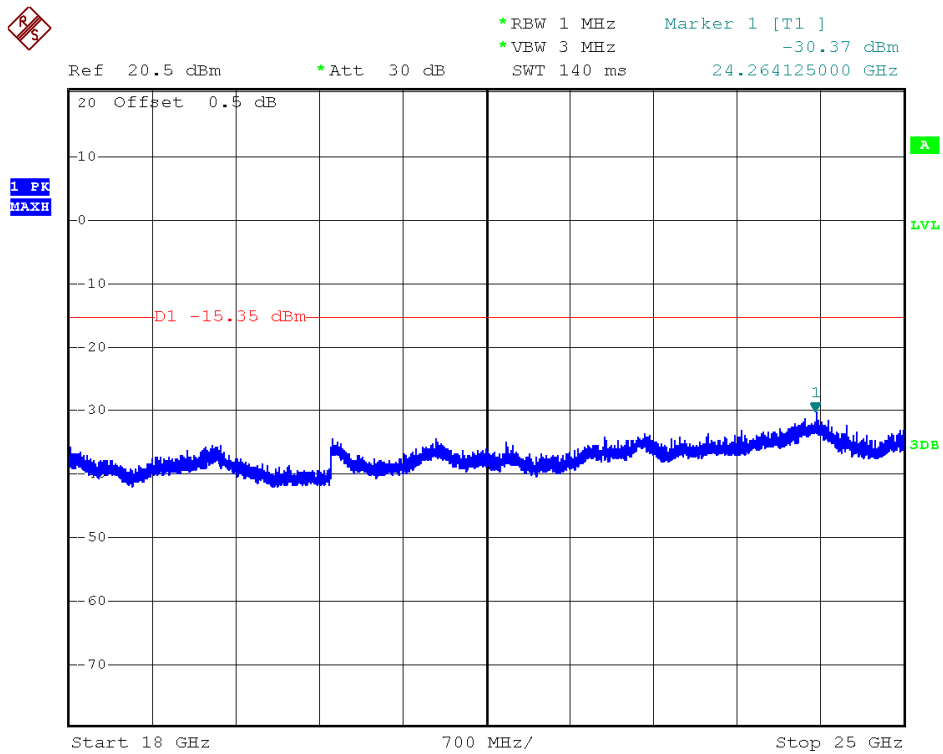
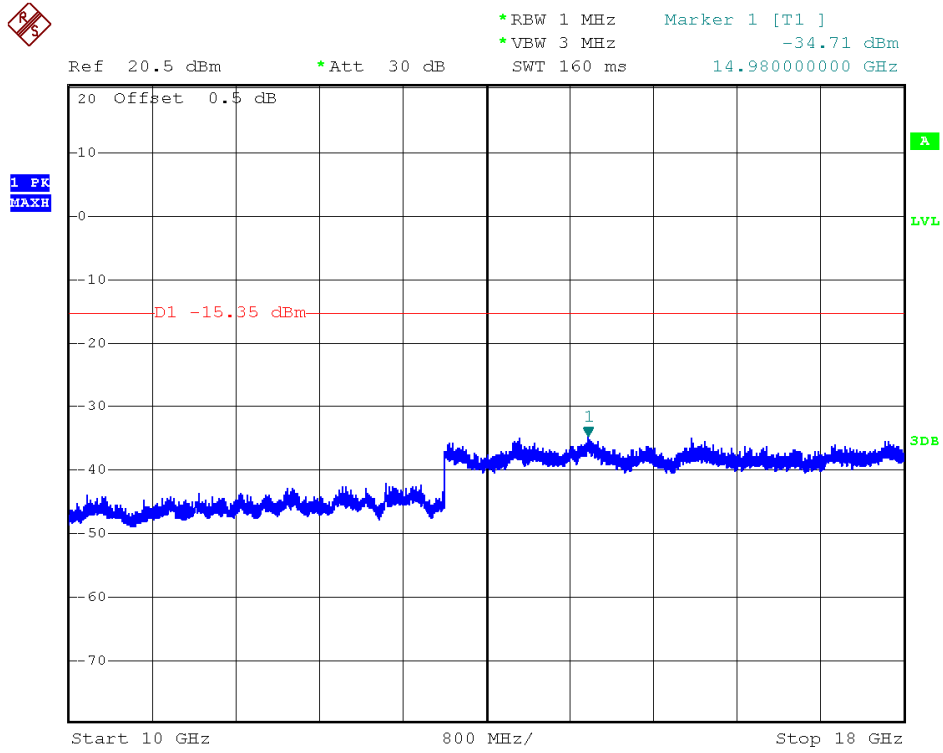
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Channel 06 (2437MHz) Reference Level: 4.65dBm



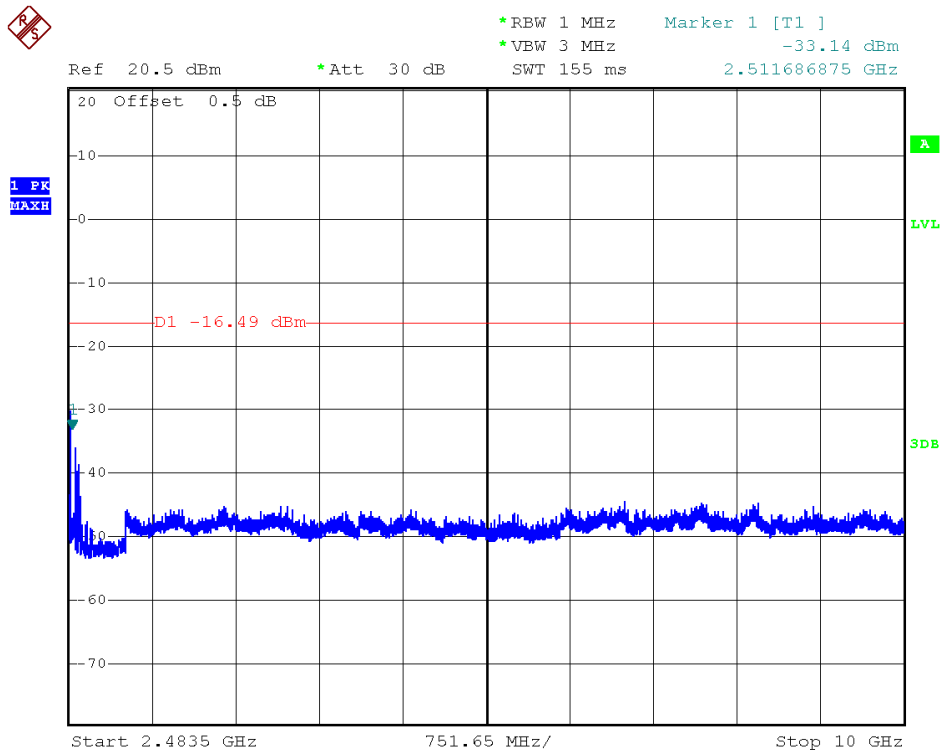
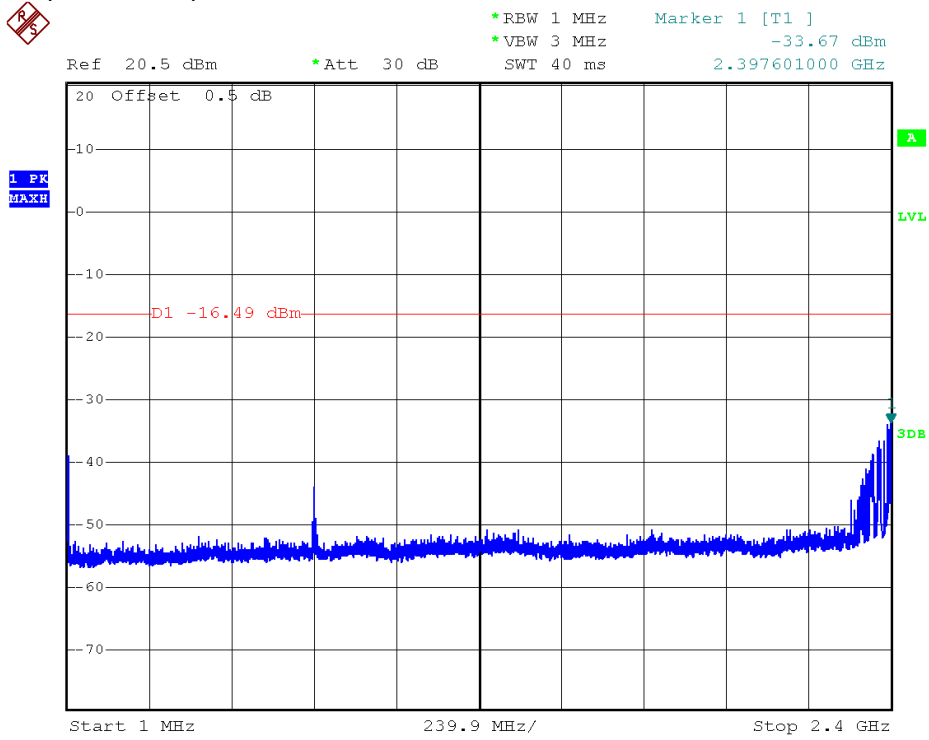
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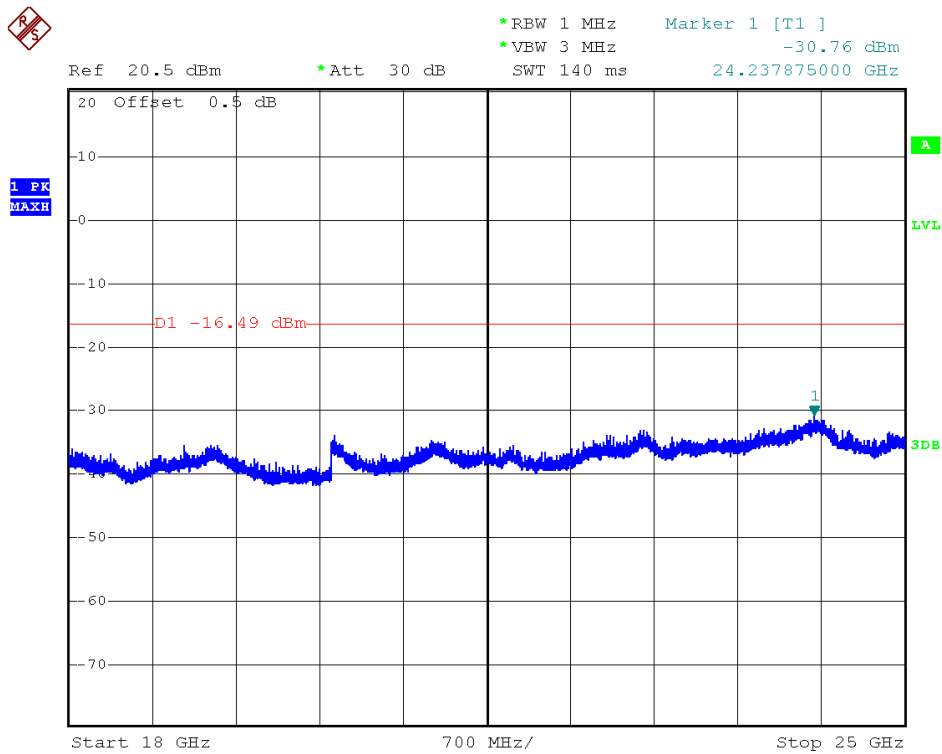
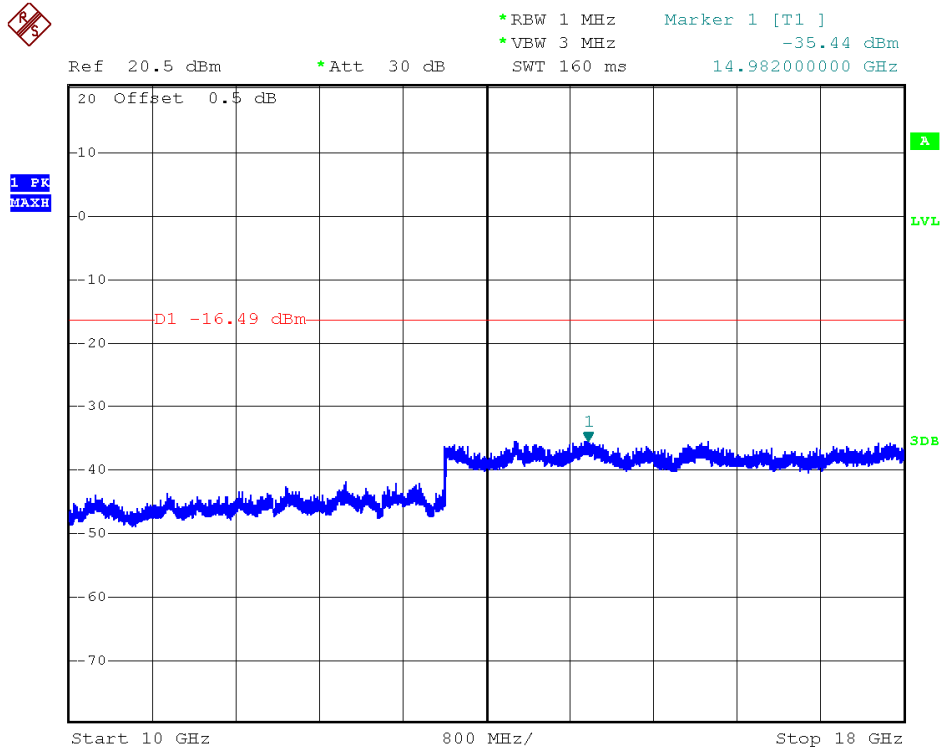
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Channel 11 (2462MHz) Reference Level: 3.51dBm



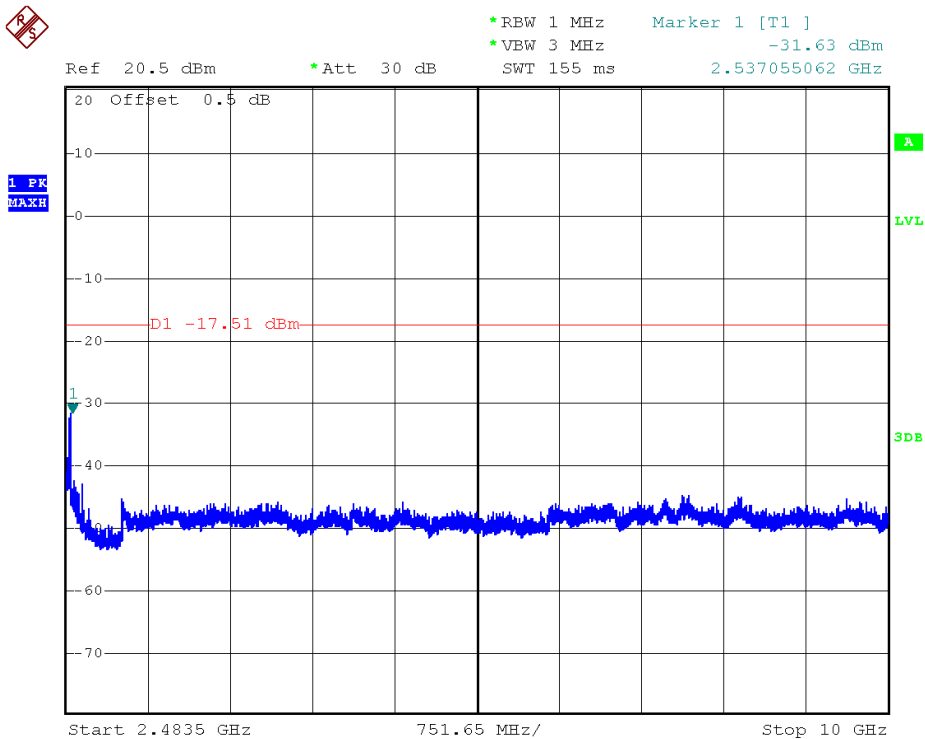
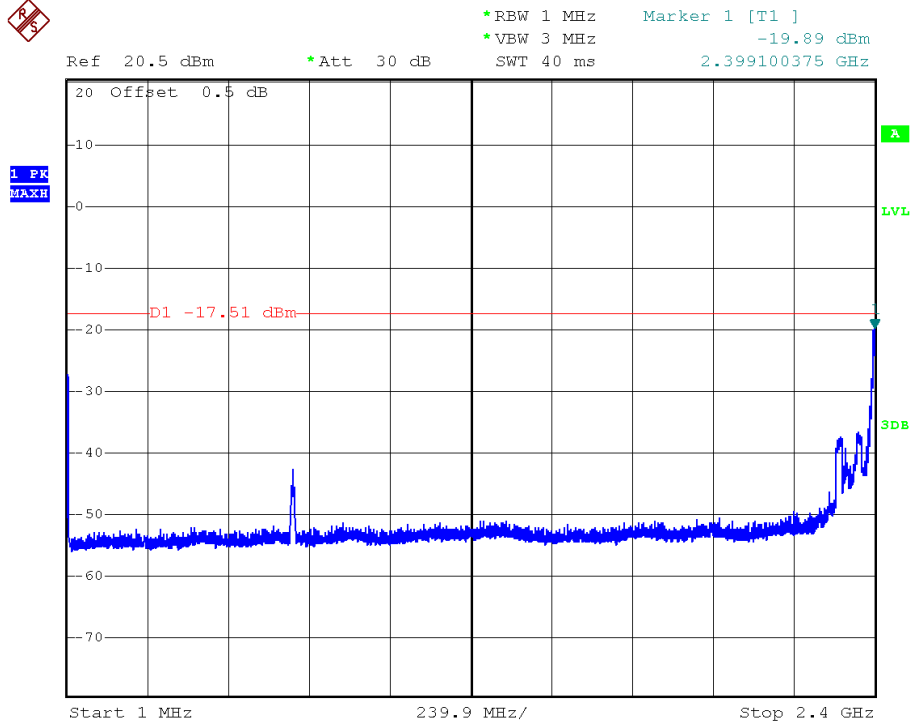
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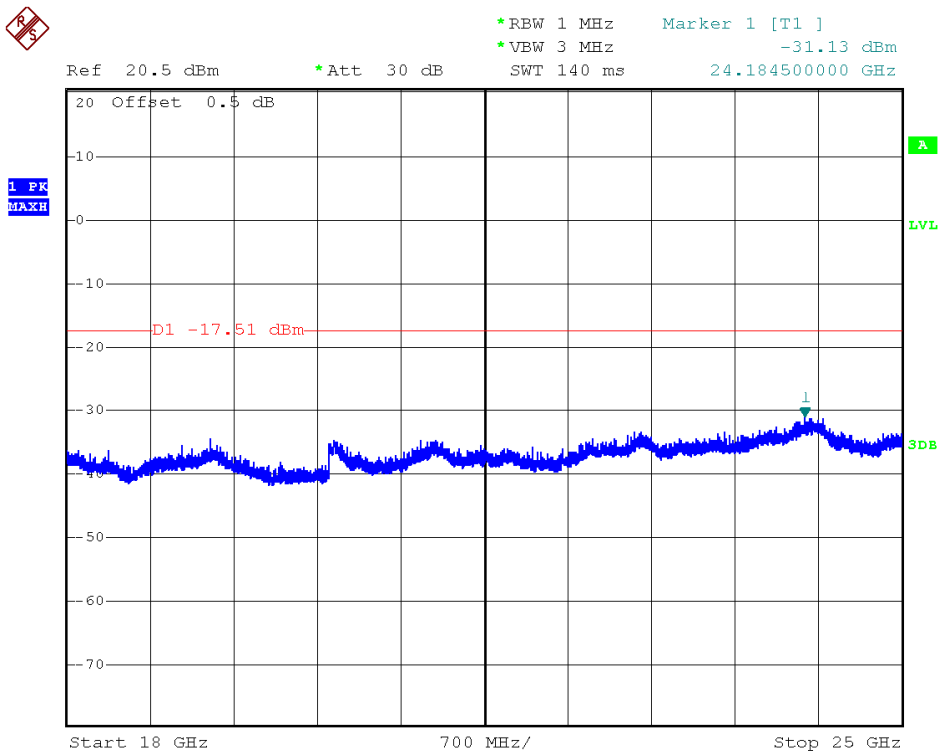
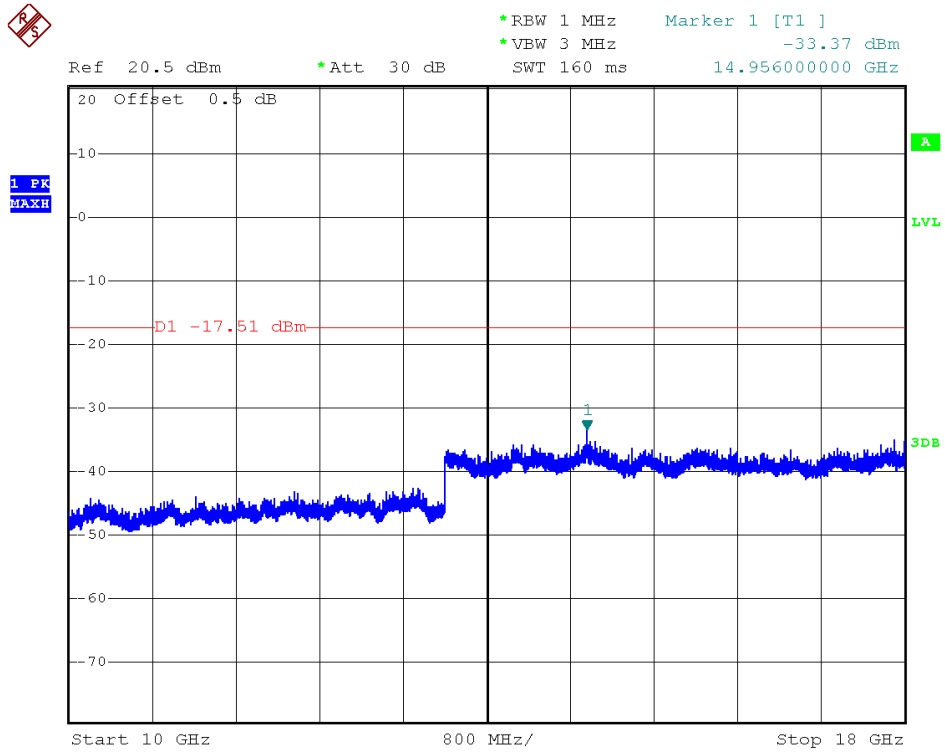
INTERTEK TESTING SERVICES

802.11g
Channel 01 (2412MHz) Reference Level: 2.49dBm



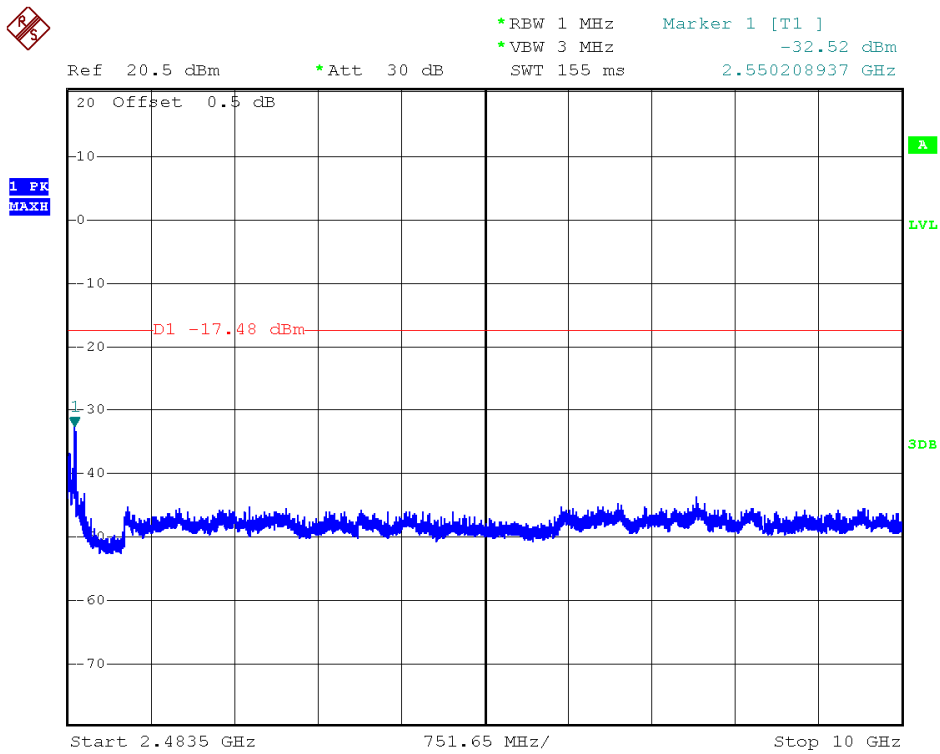
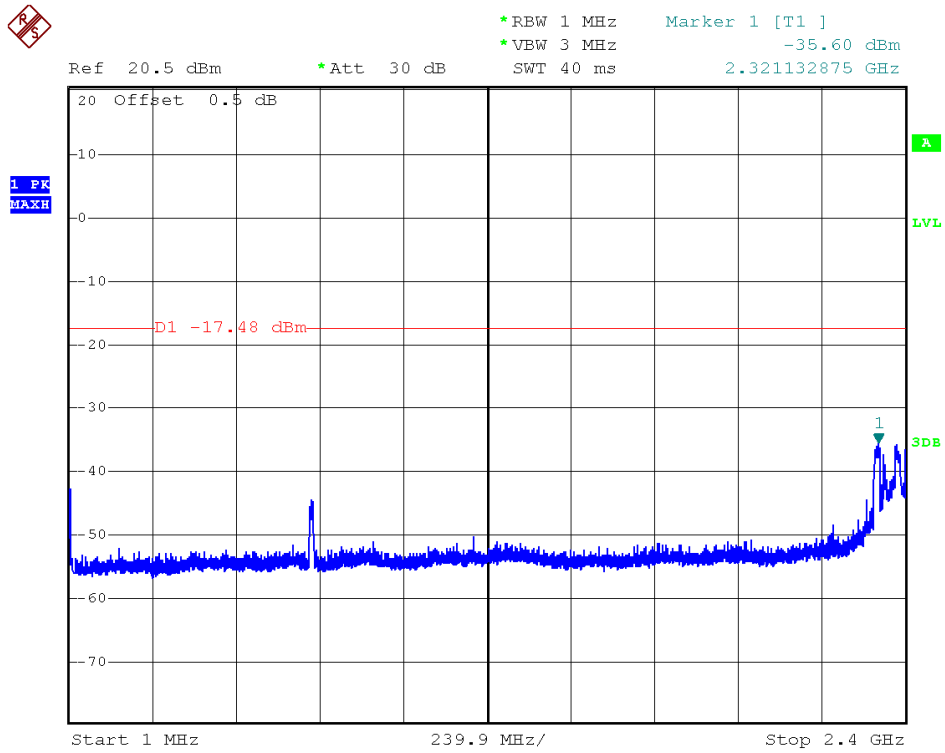
TRF no.: FCC 15C_TX_b
FCC ID: X280071
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INTERTEK TESTING SERVICES



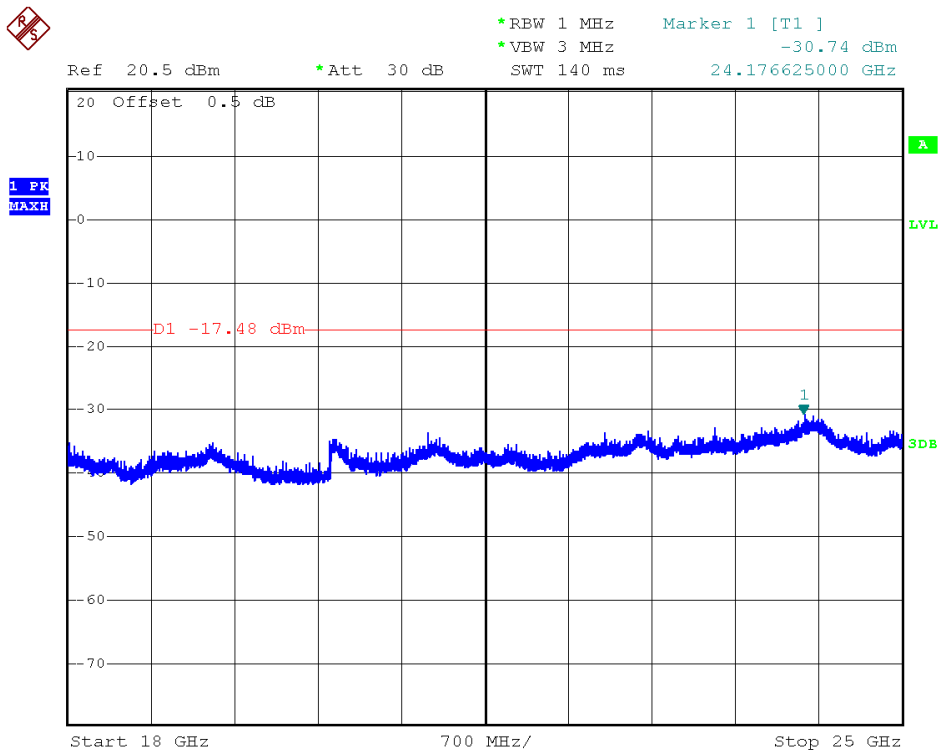
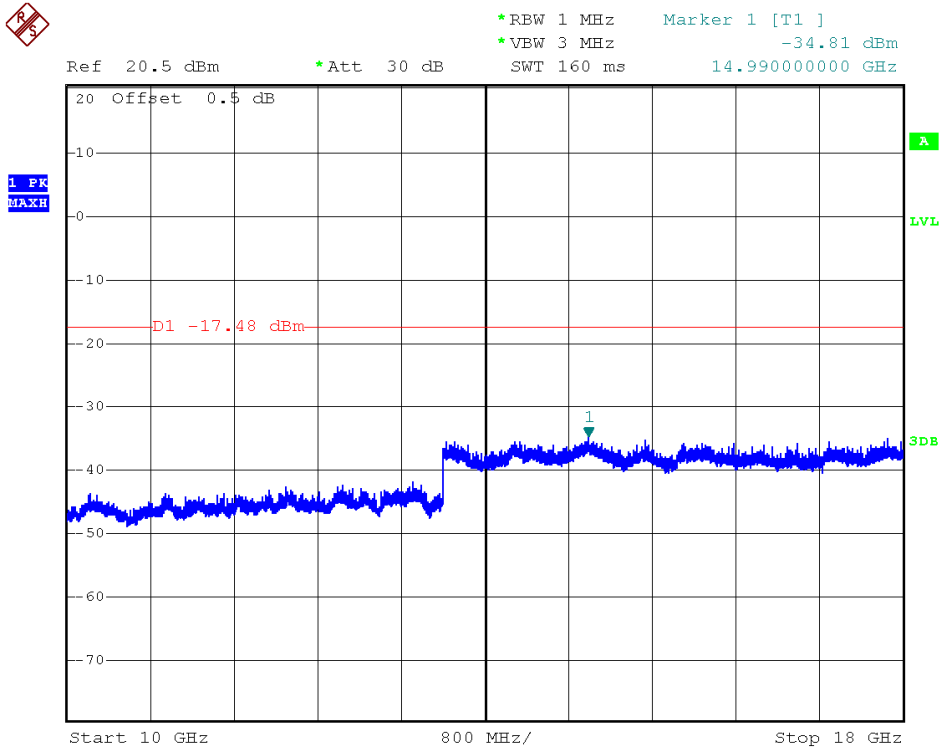
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Channel 06 (2437MHz) Reference Level: 2.52dBm



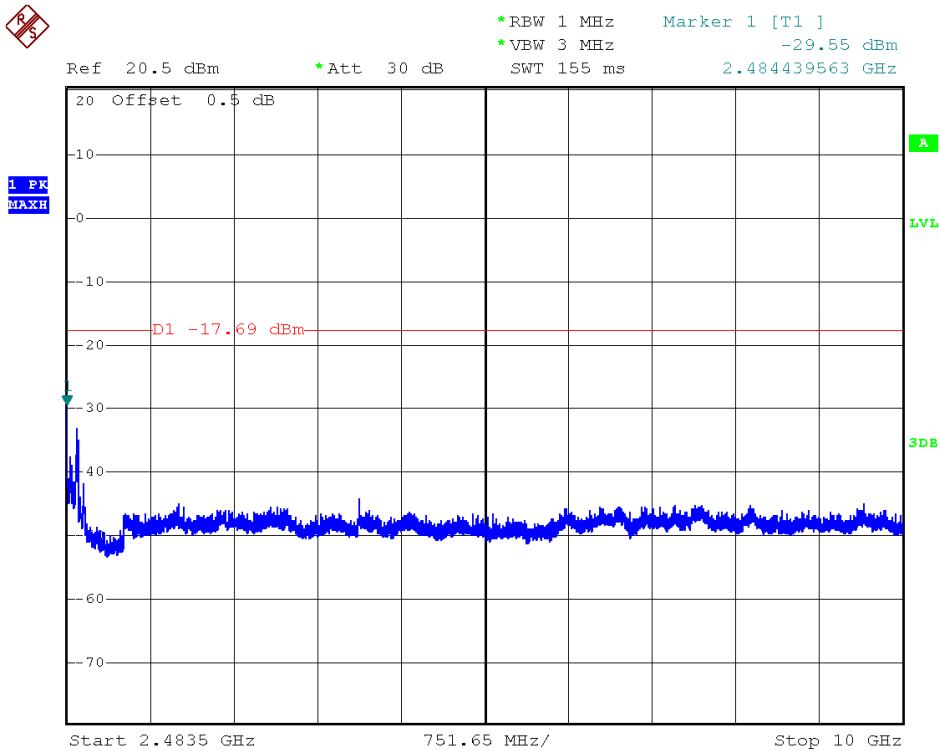
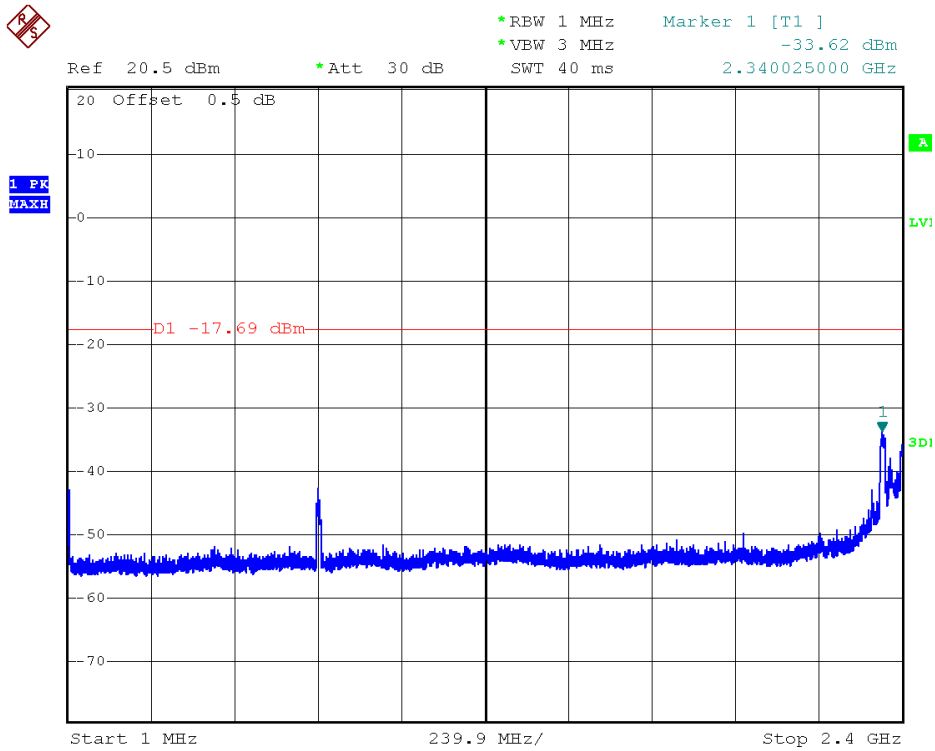
TRF no.: FCC 15C_TX_b
FCC ID: X280071
Report No.: 130513051SZN-001

INTERTEK TESTING SERVICES



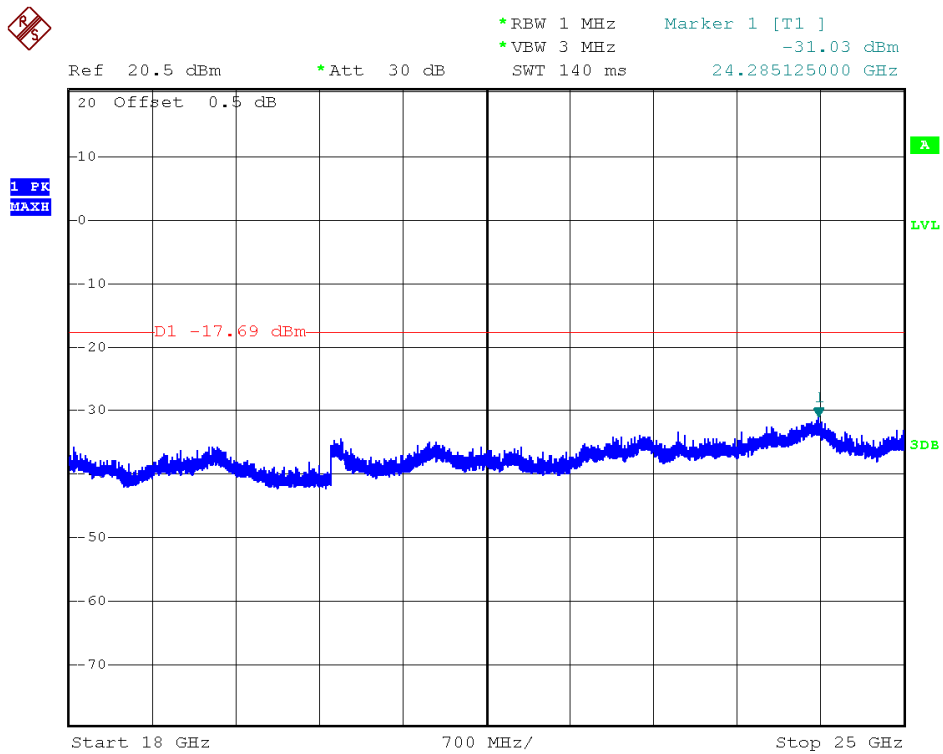
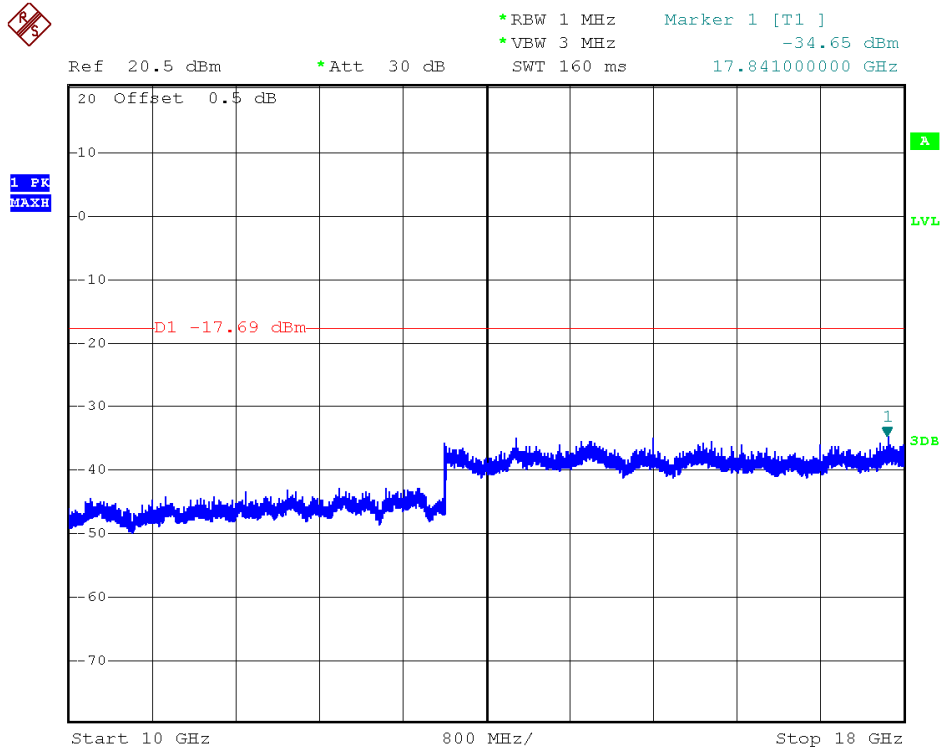
INTERTEK TESTING SERVICES

Channel 11 (2462MHz) Reference Level: 2.31dBm



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INTERTEK TESTING SERVICES



INTERTEK TESTING SERVICES

Applicant: Imagination Technologies Ltd / Pure

Date of Test: July 22, 2013

Model: Pure Contour i1 Air

4.5 Out of Band Radiated Emissions (for emissions in 4.4 above that are less than 20dB below carrier), FCC Rule 15.247(d):

For out of band emissions that are close to or that exceed the 20dB attenuation requirement described in the specification, radiated measurements were performed at a 3m separation distance to determine whether these emissions complied with the general radiated emission requirement.

Not required, since all emissions are more than 20dB below fundamental

See attached data sheet

INTERTEK TESTING SERVICES

Applicant: Imagination Technologies Ltd / Pure

Date of Test: July 22, 2013

Model: Pure Contour i1 Air

4.6 Transmitter Radiated Emissions in Restricted Bands, FCC Rule 15.35(b), (c):

Data is included of the worst case configuration (the configuration which resulted in the highest emission levels). A sample calculation, configuration photographs and data tables of the emissions are included. All measurements were performed with peak detection unless otherwise specified.

The data on the following pages list the significant emission frequencies, the limit and the margin of compliance.

INTERTEK TESTING SERVICES

Applicant: Imagination Technologies Ltd / Pure

Date of Test: July 22, 2013

Model: Pure Contour i1 Air

4.7 Field Strength Calculation

The field strength is calculated by adding the reading on the Spectrum Analyzer to the factors associated with preamplifiers (if any), antennas, cables, pulse desensitization and average factors (when specified limit is in average and measurements are made with peak detectors). A sample calculation is included below.

$$FS = RA + AF + CF - AG + PD$$

Where

- FS = Field Strength in dB μ V/m
- RA = Receiver Amplitude (including preamplifier) in dB μ V
- CF = Cable Attenuation Factor in dB
- AF = Antenna Factor in dB
- AG = Amplifier Gain in dB
- PD = Pulse Desensitization in dB

In the radiated emission table which follows, the reading shown on the data table may reflect the preamplifier gain. An example of the calculations, where the reading does not reflect the preamplifier gain, follows:

$$FS = RA + AF + CF - AG + PD$$

Example

Assume a receiver reading of 62.0 dB μ V is obtained. The antenna factor of 7.4 dB and cable factor of 1.6 dB is added. The amplifier gain of 29 dB is subtracted. The pulse desensitization factor of the spectrum analyzer was 0 dB. The net field strength for comparison to the appropriate emission limit is 32 dB μ V/m. This value in dB μ V/m was converted to its corresponding level in μ V/m.

$$RA = 62.0 \text{ dB}\mu\text{V}$$

$$AF = 7.4 \text{ dB}$$

$$CF = 1.6 \text{ dB}$$

$$AG = 29.0 \text{ dB}$$

$$PD = 0 \text{ dB}$$

$$FS = 62 + 7.4 + 1.6 - 29 + 0 = 42 \text{ dB}\mu\text{V/m}$$

$$\text{Level in mV/m} = \text{Common Antilogarithm} [(42 \text{ dB}\mu\text{V/m})/20] = 125.9 \mu\text{V/m}$$

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INTERTEK TESTING SERVICES

Applicant: Imagination Technologies Ltd / Pure
Date of Test: July 22, 2013
Model: Pure Contour i1 Air

4.8 Radiated Spurious Emission

Worst Case Radiated Spurious Emission (802.11b) at 326.030MHz is passed by 5.7dB margin.

For the electronic filing, the worst case radiated emission configuration photographs are saved with filename: radiated photos.pdf.

INTERTEK TESTING SERVICES

Applicant: Imagination Technologies Ltd / Pure

Date of Test: July 22, 2013

Model: Pure Contour i1 Air

Worst Case Operating Mode: 802.11b (TX-Channel 01)

Radiated Emissions

| Polarization | Frequency (MHz) | Reading (dB μ V) | Pre-Amp Gain (dB) | Antenna Factor (dB) | Net at 3m (dB μ V/m) | Limit at 3m (dB μ V/m) | Margin (dB) |
|--------------|-----------------|----------------------|-------------------|---------------------|--------------------------|----------------------------|-------------|
| Horizontal | 325.850 | 32.2 | 20.0 | 15.4 | 27.6 | 46.0 | -18.4 |
| Horizontal | 400.055 | 31.1 | 20.0 | 16.7 | 27.8 | 46.0 | -18.2 |
| Horizontal | 998.452 | 33.7 | 20.0 | 26.0 | 39.7 | 54.0 | -14.3 |
| Vertical | 326.030 | 44.9 | 20.0 | 15.4 | 40.3 | 46.0 | -5.7 |
| Vertical | 402.965 | 31.2 | 20.0 | 17.4 | 28.6 | 46.0 | -17.4 |
| Vertical | 999.989 | 39.9 | 20.0 | 26.0 | 45.9 | 54.0 | -8.1 |

- NOTES:
1. Quasi-Peak detector is used except for others stated.
 2. All measurements were made at 3 meters. Harmonic emissions not detected at the 3-meter distances were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other harmonic emissions than those reported were detected at a test distance of 0.3-meter.
 3. Negative value in the margin column shows emission below limit.
 4. All emissions are below the QP limit.

TRF no.: FCC 15C_TX_b

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INTERTEK TESTING SERVICES

Applicant: Imagination Technologies Ltd / Pure
 Date of Test: July 22, 2013
 Model: Pure Contour i1 Air
 Mode: 802.11b (TX-Channel 01)

Radiated Emissions

| Polarization | Frequency (MHz) | Reading (dB μ V) | Pre-Amp Gain (dB) | Antenna Factor (dB) | Net at 3m (dB μ V/m) | Peak Limit at 3m (dB μ V/m) | Margin (dB) |
|--------------|-----------------|----------------------|-------------------|---------------------|--------------------------|---------------------------------|-------------|
| Horizontal | *4824.000 | 51.5 | 36.7 | 34.2 | 49.0 | 74.0 | -25.0 |
| Horizontal | *2388.450 | 50.8 | 36.2 | 28.2 | 42.8 | 74.0 | -31.2 |

| Polarization | Frequency (MHz) | Reading (dB μ V) | Pre-Amp Gain (dB) | Antenna Factor (dB) | Net at 3m (dB μ V/m) | Average Limit at 3m (dB μ V/m) | Margin (dB) |
|--------------|-----------------|----------------------|-------------------|---------------------|--------------------------|------------------------------------|-------------|
| Horizontal | *4824.000 | 36.0 | 36.7 | 34.2 | 33.5 | 54.0 | -20.5 |
| Horizontal | *2388.450 | 36.2 | 36.2 | 28.2 | 28.2 | 54.0 | -25.8 |

- NOTES: 1. Peak detector Data unless otherwise stated. Above 1000 MHz, RBW=1MHz, VBW=3MHz is used for Peak measurement, RBW=1MHz, VBW=10Hz is used for Average measurement.
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna used for the emission over 1000MHz.
- * Emission within the restricted band meets the requirement of section 15.205. The corresponding limit as per 15.209 is based on Quasi peak limit for frequencies below 1000 MHz and average limit for frequencies over 1000 MHz. The radio frequency emissions above 1GHz also meet corresponding 20dB permitted peak limit with a peak detector function.

INTERTEK TESTING SERVICES

Applicant: Imagination Technologies Ltd / Pure
 Date of Test: July 22, 2013
 Model: Pure Contour i1 Air
 Mode: 802.11b (TX-Channel 06)

Radiated Emissions

| Polarization | Frequency (MHz) | Reading (dB μ V) | Pre-Amp Gain (dB) | Antenna Factor (dB) | Net at 3m (dB μ V/m) | Peak Limit at 3m (dB μ V/m) | Margin (dB) |
|--------------|-----------------|----------------------|-------------------|---------------------|--------------------------|---------------------------------|-------------|
| Horizontal | *4874.000 | 51.0 | 36.7 | 34.6 | 48.9 | 74.0 | -25.1 |
| Horizontal | *7311.000 | 52.8 | 36.7 | 37.1 | 53.2 | 74.0 | -20.8 |
| Horizontal | *9478.000 | 58.2 | 36.1 | 33.9 | 56.0 | 74.0 | -18.0 |

| Polarization | Frequency (MHz) | Reading (dB μ V) | Pre-Amp Gain (dB) | Antenna Factor (dB) | Net at 3m (dB μ V/m) | Average Limit at 3m (dB μ V/m) | Margin (dB) |
|--------------|-----------------|----------------------|-------------------|---------------------|--------------------------|------------------------------------|-------------|
| Horizontal | *4874.000 | 35.6 | 36.7 | 34.6 | 33.5 | 54.0 | -20.5 |
| Horizontal | *7311.000 | 37.1 | 36.7 | 37.1 | 37.5 | 54.0 | -16.5 |
| Horizontal | *9478.000 | 43.4 | 36.1 | 33.9 | 41.2 | 54.0 | -12.8 |

- NOTES: 1. Peak detector Data unless otherwise stated. Above 1000 MHz, RBW=1MHz, VBW=3MHz is used for Peak measurement, RBW=1MHz, VBW=10Hz is used for Average measurement.
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna used for the emission over 1000MHz.
- * Emission within the restricted band meets the requirement of section 15.205. The corresponding limit as per 15.209 is based on Quasi peak limit for frequencies below 1000 MHz and average limit for frequencies over 1000 MHz. The radio frequency emissions above 1GHz also meet corresponding 20dB permitted peak limit with a peak detector function.

INTERTEK TESTING SERVICES

Applicant: Imagination Technologies Ltd / Pure

Date of Test: July 22, 2013

Model: Pure Contour i1 Air

Mode: 802.11b (TX-Channel 11)

Radiated Emissions

| Polarization | Frequency (MHz) | Reading (dB μ V) | Pre-Amp Gain (dB) | Antenna Factor (dB) | Net at 3m (dB μ V/m) | Peak Limit at 3m (dB μ V/m) | Margin (dB) |
|--------------|-----------------|----------------------|-------------------|---------------------|--------------------------|---------------------------------|-------------|
| Horizontal | *4924.000 | 50.6 | 36.7 | 34.6 | 48.5 | 74.0 | -25.5 |
| Horizontal | *7386.000 | 53.5 | 36.7 | 37.2 | 54.0 | 74.0 | -20.0 |
| Horizontal | *2483.924 | 51.8 | 36.2 | 28.0 | 43.6 | 74.0 | -30.4 |

| Polarization | Frequency (MHz) | Reading (dB μ V) | Pre-Amp Gain (dB) | Antenna Factor (dB) | Net at 3m (dB μ V/m) | Average Limit at 3m (dB μ V/m) | Margin (dB) |
|--------------|-----------------|----------------------|-------------------|---------------------|--------------------------|------------------------------------|-------------|
| Horizontal | *4924.000 | 35.5 | 36.7 | 34.6 | 33.4 | 54.0 | -20.6 |
| Horizontal | *7386.000 | 38.4 | 36.7 | 37.2 | 38.9 | 54.0 | -15.1 |
| Horizontal | *2483.924 | 36.4 | 36.2 | 28.0 | 28.2 | 54.0 | -25.8 |

NOTES: 1. Peak detector Data unless otherwise stated. Above 1000 MHz, RBW=1MHz, VBW=3MHz is used for Peak measurement, RBW=1MHz, VBW=10Hz is used for Average measurement.

2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.

4. Horn antenna used for the emission over 1000MHz.

* Emission within the restricted band meets the requirement of section 15.205. The corresponding limit as per 15.209 is based on Quasi peak limit for frequencies below 1000 MHz and average limit for frequencies over 1000 MHz. The radio frequency emissions above 1GHz also meet corresponding 20dB permitted peak limit with a peak detector function.

TRF no.: FCC 15C_TX_b

FCC ID: X280071

Report No.: 130513051SZN-001

INTERTEK TESTING SERVICES

Applicant: Imagination Technologies Ltd / Pure
 Date of Test: July 22, 2013
 Model: Pure Contour i1 Air
 Mode: 802.11g (TX-Channel 01)

Radiated Emissions

| Polarization | Frequency (MHz) | Reading (dB μ V) | Pre-Amp Gain (dB) | Antenna Factor (dB) | Net at 3m (dB μ V/m) | Peak Limit at 3m (dB μ V/m) | Margin (dB) |
|--------------|-----------------|----------------------|-------------------|---------------------|--------------------------|---------------------------------|-------------|
| Horizontal | *4824.000 | 52.1 | 36.7 | 34.2 | 49.6 | 74.0 | -24.4 |
| Horizontal | *2388.710 | 52.0 | 36.2 | 27.8 | 43.6 | 74.0 | -30.4 |

| Polarization | Frequency (MHz) | Reading (dB μ V) | Pre-Amp Gain (dB) | Antenna Factor (dB) | Net at 3m (dB μ V/m) | Average Limit at 3m (dB μ V/m) | Margin (dB) |
|--------------|-----------------|----------------------|-------------------|---------------------|--------------------------|------------------------------------|-------------|
| Horizontal | *4824.000 | 36.0 | 36.7 | 34.2 | 33.5 | 54.0 | -20.5 |
| Horizontal | *2388.710 | 36.7 | 36.2 | 27.8 | 28.3 | 54.0 | -25.7 |

- NOTES: 1. Peak detector Data unless otherwise stated. Above 1000 MHz, RBW=1MHz, VBW=3MHz is used for Peak measurement, RBW=1MHz, VBW=10Hz is used for Average measurement.
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna used for the emission over 1000MHz.
- * Emission within the restricted band meets the requirement of section 15.205. The corresponding limit as per 15.209 is based on Quasi peak limit for frequencies below 1000 MHz and average limit for frequencies over 1000 MHz. The radio frequency emissions above 1GHz also meet corresponding 20dB permitted peak limit with a peak detector function.

INTERTEK TESTING SERVICES

Applicant: Imagination Technologies Ltd / Pure
 Date of Test: July 22, 2013
 Model: Pure Contour i1 Air
 Mode: 802.11g (TX-Channel 06)

Radiated Emissions

| Polarization | Frequency (MHz) | Reading (dB μ V) | Pre-Amp Gain (dB) | Antenna Factor (dB) | Net at 3m (dB μ V/m) | Peak Limit at 3m (dB μ V/m) | Margin (dB) |
|--------------|-----------------|----------------------|-------------------|---------------------|--------------------------|---------------------------------|-------------|
| Horizontal | *4874.000 | 51.1 | 36.7 | 34.6 | 49.0 | 74.0 | -25.0 |
| Horizontal | *7311.000 | 52.2 | 36.7 | 37.1 | 52.6 | 74.0 | -21.4 |

| Polarization | Frequency (MHz) | Reading (dB μ V) | Pre-Amp Gain (dB) | Antenna Factor (dB) | Net at 3m (dB μ V/m) | Average Limit at 3m (dB μ V/m) | Margin (dB) |
|--------------|-----------------|----------------------|-------------------|---------------------|--------------------------|------------------------------------|-------------|
| Horizontal | *4874.000 | 35.6 | 36.7 | 34.6 | 33.5 | 54.0 | -20.5 |
| Horizontal | *7311.000 | 37.5 | 36.7 | 37.1 | 37.9 | 54.0 | -16.1 |

- NOTES: 1. Peak detector Data unless otherwise stated. Above 1000 MHz, RBW=1MHz, VBW=3MHz is used for Peak measurement, RBW=1MHz, VBW=10Hz is used for Average measurement.
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna used for the emission over 1000MHz.
- * Emission within the restricted band meets the requirement of section 15.205. The corresponding limit as per 15.209 is based on Quasi peak limit for frequencies below 1000 MHz and average limit for frequencies over 1000 MHz. The radio frequency emissions above 1GHz also meet corresponding 20dB permitted peak limit with a peak detector function.

INTERTEK TESTING SERVICES

Applicant: Imagination Technologies Ltd / Pure
 Date of Test: July 22, 2013
 Model: Pure Contour i1 Air
 Mode: 802.11g (TX-Channel 11)

Radiated Emissions

| Polarization | Frequency (MHz) | Reading (dB μ V) | Pre-Amp Gain (dB) | Antenna Factor (dB) | Net at 3m (dB μ V/m) | Peak Limit at 3m (dB μ V/m) | Margin (dB) |
|--------------|-----------------|----------------------|-------------------|---------------------|--------------------------|---------------------------------|-------------|
| Horizontal | *4924.000 | 50.8 | 36.7 | 34.6 | 48.7 | 74.0 | -25.3 |
| Horizontal | *7386.000 | 54.5 | 36.7 | 37.2 | 55.0 | 74.0 | -19.0 |
| Horizontal | *2484.320 | 51.8 | 36.2 | 28.0 | 43.6 | 74.0 | -30.4 |

| Polarization | Frequency (MHz) | Reading (dB μ V) | Pre-Amp Gain (dB) | Antenna Factor (dB) | Net at 3m (dB μ V/m) | Average Limit at 3m (dB μ V/m) | Margin (dB) |
|--------------|-----------------|----------------------|-------------------|---------------------|--------------------------|------------------------------------|-------------|
| Horizontal | *4924.000 | 35.2 | 36.7 | 34.6 | 33.1 | 54.0 | -20.9 |
| Horizontal | *7386.000 | 38.6 | 36.7 | 37.2 | 39.1 | 54.0 | -14.9 |
| Horizontal | *2484.320 | 36.5 | 36.2 | 28.0 | 28.3 | 54.0 | -25.7 |

- NOTES: 1. Peak detector Data unless otherwise stated. Above 1000 MHz, RBW=1MHz, VBW=3MHz is used for Peak measurement, RBW=1MHz, VBW=10Hz is used for Average measurement.
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna used for the emission over 1000MHz.
- * Emission within the restricted band meets the requirement of section 15.205. The corresponding limit as per 15.209 is based on Quasi peak limit for frequencies below 1000 MHz and average limit for frequencies over 1000 MHz. The radio frequency emissions above 1GHz also meet corresponding 20dB permitted peak limit with a peak detector function.

INTERTEK TESTING SERVICES

4.9 Conducted Emission

Worst Case Conducted Configuration
At

0.274 MHz

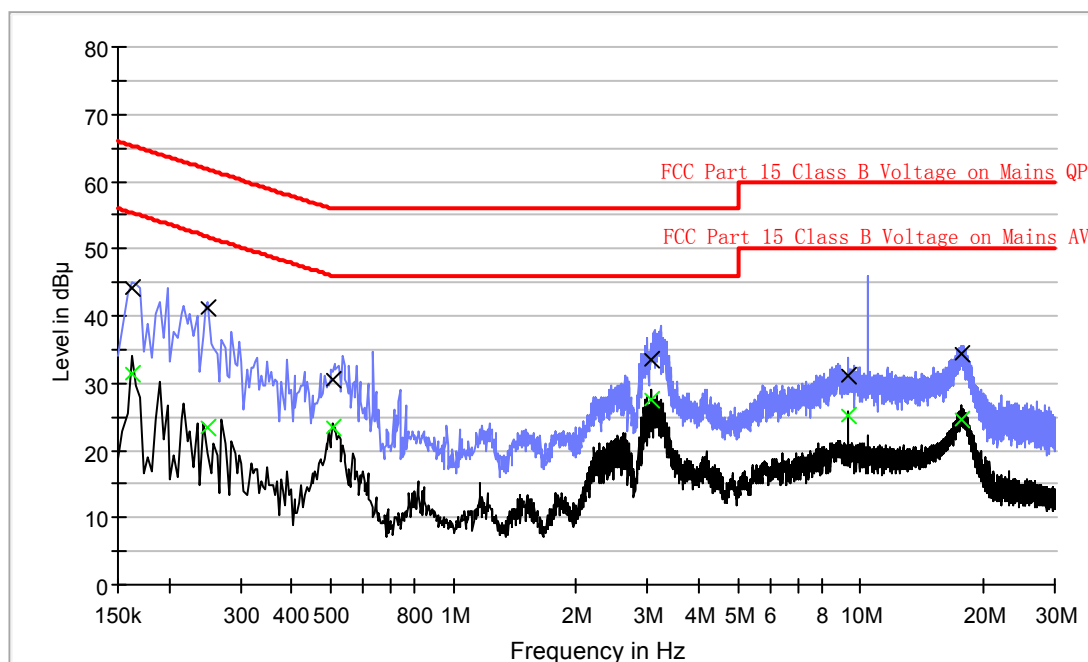
Judgement: Passed by 11.4 dB margin

For electronic filing, the worst case conducted emission configuration photograph is saved with filename: conducted photos.pdf.

INTERTEK TESTING SERVICES

Applicant: Imagination Technologies Ltd / Pure
 Date of Test: July 22, 2013
 Model: Pure Contour i1 Air
 Worst Case Operating Mode: WiFi link (802.11g)

Conducted Emission Test - FCC



Result Table QP

| Frequency (MHz) | QuasiPeak (dB µ V) | Line | Corr. (dB) | Margin (dB) | Limit (dB µ V) |
|-----------------|--------------------|------|------------|-------------|----------------|
| 0.162 | 44.2 | L1 | 9.6 | 21.2 | 65.4 |
| 0.250 | 41.2 | L1 | 9.6 | 20.6 | 61.8 |
| 0.506 | 30.5 | L1 | 9.6 | 25.5 | 56.0 |
| 3.062 | 33.5 | L1 | 9.7 | 22.5 | 56.0 |
| 9.286 | 31.1 | L1 | 10.0 | 28.9 | 60.0 |
| 17.594 | 34.3 | L1 | 10.4 | 25.7 | 60.0 |

Result Table AV

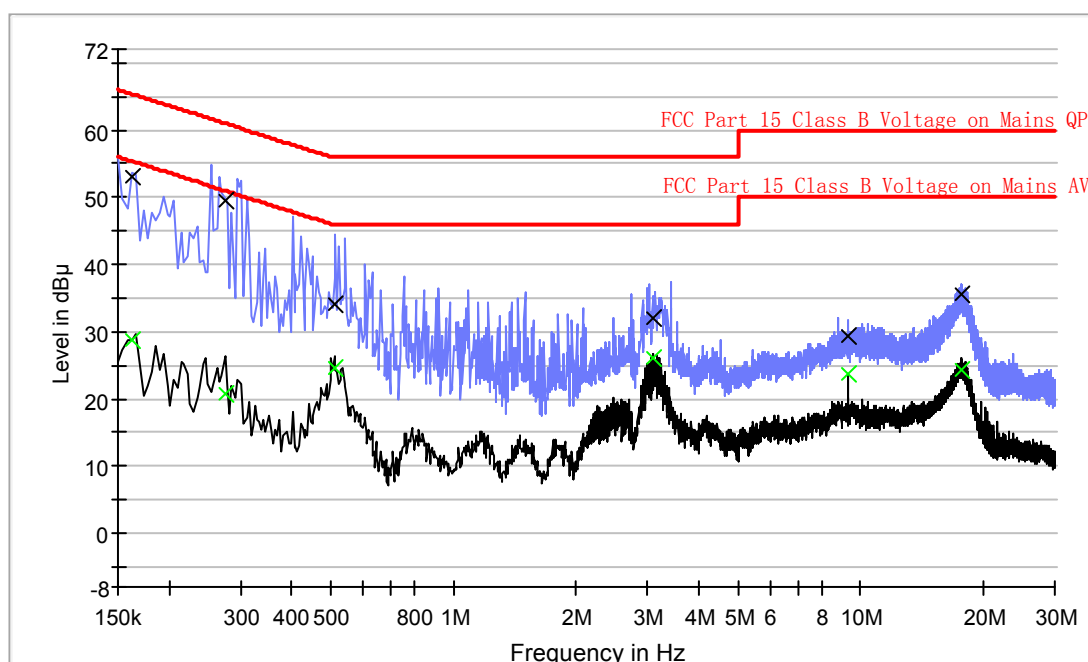
| Frequency (MHz) | CAverage (dB µ V) | Line | Corr. (dB) | Margin (dB) | Limit (dB µ V) |
|-----------------|-------------------|------|------------|-------------|----------------|
| 0.162 | 31.4 | L1 | 9.6 | 24.0 | 55.4 |
| 0.250 | 23.4 | L1 | 9.6 | 28.4 | 51.8 |
| 0.506 | 23.4 | L1 | 9.6 | 22.6 | 46.0 |
| 3.062 | 27.7 | L1 | 9.7 | 18.3 | 46.0 |
| 9.286 | 25.1 | L1 | 10.0 | 24.9 | 50.0 |
| 17.594 | 24.7 | L1 | 10.4 | 25.3 | 50.0 |

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INTERTEK TESTING SERVICES

Applicant: Imagination Technologies Ltd / Pure
 Date of Test: July 22, 2013
 Model: Pure Contour i1 Air
 Worst Case Operating Mode: WiFi link (802.11g)

Conducted Emission Test - FCC



Result Table QP

| Frequency (MHz) | QuasiPeak (dB µ V) | Line | Corr. (dB) | Margin (dB) | Limit (dB µ V) |
|-----------------|--------------------|------|------------|-------------|----------------|
| 0.162 | 53.1 | N | 9.7 | 12.3 | 65.4 |
| 0.274 | 49.6 | N | 9.6 | 11.4 | 61.0 |
| 0.510 | 34.2 | N | 9.6 | 21.8 | 56.0 |
| 3.094 | 31.9 | N | 9.7 | 24.1 | 56.0 |
| 9.286 | 29.4 | N | 10.0 | 30.6 | 60.0 |
| 17.698 | 35.6 | N | 10.5 | 24.4 | 60.0 |

Result Table AV

| Frequency (MHz) | CAverage (dB µ V) | Line | Corr. (dB) | Margin (dB) | Limit (dB µ V) |
|-----------------|-------------------|------|------------|-------------|----------------|
| 0.162 | 28.7 | N | 9.7 | 26.7 | 55.4 |
| 0.274 | 20.6 | N | 9.6 | 30.4 | 51.0 |
| 0.510 | 24.5 | N | 9.6 | 21.5 | 46.0 |
| 3.094 | 26.1 | N | 9.7 | 19.9 | 46.0 |
| 9.286 | 23.6 | N | 10.0 | 26.4 | 50.0 |
| 17.698 | 24.3 | N | 10.5 | 25.7 | 50.0 |

TRF no.: FCC 15C_TX_b
 FCC ID: X280071
 Report No.: 130513051SZN-001

INTERTEK TESTING SERVICES

Applicant: Imagination Technologies Ltd / Pure

Date of Test: July 22, 2013

Model: Pure Contour i1 Air

4.10 Radiated Emissions from Digital Section of Transceiver, FCC Ref: 15.109

Not required - No digital part

Test results are attached

Included in the separated report.

TRF no.: FCC 15C_TX_b

FCC ID: X280071

Report No.: 130513051SZN-001

INTERTEK TESTING SERVICES

Applicant: Imagination Technologies Ltd / Pure

Date of Test: July 22, 2013

Model: Pure Contour i1 Air

4.11 Transmitter Duty Cycle Calculation and Measurements, FCC Rule 15.35(b), (c)

The EUT antenna output port was connected to the input of the spectrum analyzer. The analyzer center frequency was set to EUT RF channel carrier. The SWEP function on the analyzer was set to ZERO SPAN. The Transmitter ON time was determined from the resultant time-amplitude display:

| | |
|---|---|
| | See attached spectrum analyzer chart (s) for Transmitter timing |
| | See Transmitter timing diagram provided by manufacturer |
| x | Not applicable, duty cycle was not used. |

INTERTEK TESTING SERVICES

EXHIBIT 5
EQUIPMENT PHOTOGRAPHS

INTERTEK TESTING SERVICES

5.0 Equipment Photographs

For electronic filing, the photographs are saved with filename: external photos.doc & internal photos.pdf.

INTERTEK TESTING SERVICES

EXHIBIT 6

PRODUCT LABELLING

INTERTEK TESTING SERVICES

6.0 Product Labeling

For electronic filing, the FCC ID label artwork and location is saved with filename: label.pdf.

INTERTEK TESTING SERVICES

EXHIBIT 7

TECHNICAL SPECIFICATIONS

INTERTEK TESTING SERVICES

7.0 Technical Specifications

For electronic filing, the block diagram and circuit diagram are saved with filename: block.pdf and circuit.pdf respectively.

INTERTEK TESTING SERVICES

EXHIBIT 8

INSTRUCTION MANUAL

INTERTEK TESTING SERVICES

8.0 Instruction Manual

For electronic filing, a preliminary copy of the Instruction Manual is saved with filename: manual.pdf.

This manual will be provided to the end-user with each unit sold/leased in the United States.

INTERTEK TESTING SERVICES

EXHIBIT 9

CONFIDENTIALITY REQUEST

INTERTEK TESTING SERVICES

9.0 Confidentiality Request

For electronic filing, the confidentiality request of the tested EUT is saved with filename: request.pdf.

INTERTEK TESTING SERVICES

EXHIBIT 10

MISCELLANEOUS INFORMATION

INTERTEK TESTING SERVICES

10.0 Discussion of Pulse Desensitization

The determination of pulse desensitivity was made in accordance with Hewlett Packard Application Note 150-2, *Spectrum Analysis ... Pulsed RF*.

Pulse desensitivity is not applicable for this device since the transmitter transmits the RF signal continuously.

INTERTEK TESTING SERVICES

EXHIBIT 11

TEST EQUIPMENT LIST

INTERTEK TESTING SERVICES

11.0 Test Equipment List

| Equipment No. | Equipment | Manufacturer | Model No. | Serial No. | Cal. Date | Due Date |
|---------------|---------------------|-----------------|--------------|------------|-----------|-----------|
| SZ061-03 | BiConiLog Antenna | ETS | 3142C | 00066460 | 29-Jun-13 | 29-Jun-14 |
| SZ185-01 | EMI Receiver | R&S | ESCI | 100547 | 12-Mar-13 | 12-Mar-14 |
| SZ061-08 | Horn Antenna | ETS | 3115 | 00092346 | 3-Nov-12 | 3-Nov-13 |
| SZ061-07 | Horn Antenna | ETS | 3160-09 | 00083067 | 27-Aug-12 | 27-Aug-13 |
| SZ061-06 | Active Loop Antenna | Electro-Metrics | EM-6876 | 217 | 13-May-13 | 13-May-14 |
| SZ056-03 | Spectrum Analyzer | R&S | FSP 30 | 101148 | 12-Mar-13 | 12-Mar-14 |
| SZ181-04 | Preamplifier | Agilent | 8449B | 3008A02474 | 12-Mar-13 | 12-Mar-14 |
| SZ182-02 | RF Power Meter | Anritsu | ML2496A | 1302005 | 28-Feb-13 | 28-Feb-14 |
| SZ182-02-01 | Pulse Power Sensor | Anritsu | MA2411B | 1207429 | 28-Feb-13 | 28-Feb-14 |
| SZ188-01 | Anechoic Chamber | ETS | RFD-F/A-100 | 4102 | 2-Mar-13 | 2-Mar-14 |
| SZ062-02 | RF Cable | RADIALL | RG 213U | -- | 20-Jul-13 | 20-Jan-14 |
| SZ062-05 | RF Cable | RADIALL | 0.04-26.5GHz | -- | 22-Apr-13 | 22-Oct-13 |
| SZ062-12 | RF Cable | RADIALL | 0.04-26.5GHz | -- | 22-Apr-13 | 22-Oct-13 |
| SZ067-04 | Notch Filter | Micro-Tronics | BRM5070 2-02 | -- | 20-Jul-13 | 20-Jan-14 |
| SZ185-02 | EMI Test Receiver | R&S | ESCI | 100692 | 5-Nov-12 | 5-Nov-13 |
| SZ187-01 | Two-Line V-Network | R&S | ENV216 | 100072 | 5-Nov-12 | 5-Nov-13 |
| SZ187-02 | Two-Line V-Network | R&S | ENV216 | 100073 | 5-Nov-12 | 5-Nov-13 |
| SZ188-03 | Shielding Room | ETS | RFD-100 | 4100 | 23-Aug-12 | 23-Aug-13 |